Manitoba
Agriculture

MANITOBA AGRICULTURE YEARBOOK 1988

AGDEX 850
ISSN0084-3865

Copies of this publication may be obtained from:

Statistics Section
Manitoba Agriculture
903 - 401 York Avenue
Winnipeg, Manitoba
R3C 0P8

Price: $5.00 Canadian

Manitoba
Agriculture

MANITOBA AGRICULTURE YEARBOOK 1988

AGDEX 850
ISSN0084-3865

90-05610/

Canadian Cataloguing in Publication Data
338.1097127021
Manitoba agriculture yearbook, 1988

Annual.
Chiefly tables.
Continues: Yearbook Manitoba agriculture.
ISSN 0084-3865.

1. Agriculture — Manitoba — Statistics.
2. Agriculture — Economic aspects — Manitoba — Statistics. I. Manitoba. Manitoba Agriculture.
I. Title: Yearbook Manitoba agriculture.
Printed in Canada

FOREWORD

This publication is the twenty-sixth in the Yearbook series initiated in 1963. The same format, which includes recent and historical data from 1954, has been continued for the convenience of users. In addition, this issue contains estimates and data converted to the International Standards. The metric conversion factors used are shown in the Sources and Methods Section. Minor changes are also made annually whenever new or more detailed information becomes available. Statistics published in this issue of the Yearbook are based on available information as of July 31, 1989. Any revisions to the 1988 data published will be incorporated in the 1989 issue of this publication. Revisions in previous years' estimates are made as more recent and more accurate data are received.

The census division and crop district boundaries were changed in 1976, and the first small area estimates using new boundaries were made in 1977. These estimates by crop districts are made annually for: a) seeded area and production of wheat, oats, barley, flaxseed, canola (rapeseed) and hay; and b) cattle and hog numbers on farms, as of July 1.

Cooperation between Statistics Canada and Manitoba Agriculture is maintained to secure the best possible agricultural statistics. The assistance of many contributors of information received from other government departments, farm businesses, farmer organizations and farmers is acknowledged. Sincere appreciation is extended to the secretarial staff of the Economics Branch for typing, collating and proofing the manuscript.

The development, compilation and assembly of all material was done by Errol Lewis, Sr. Statistician of the Economics Branch, Manitoba Agriculture.

Suggestions for improving the content of the manuscript can be sent to Statistics Section, Economics Branch, 903 Norquay Building, Winnipeg, Manitoba, R3C 0P8, PH: (204) 945-3501.

Heather Gregory
Director
Economics Branch
Policy and Economics Division
Manitoba Agriculture

CONTENTS

	Current Events Page	Past Trends
FOREWORD	1	—
MAP	6	—
1988 IN REVIEW	7	—
1988 Value of Farm Production	8	—
Cash Income	14	119-123
Farm Net Income	14	124
CROPS		
General Conditions	16	—
Wheat	17	64-65
Durum Wheat	17	—
Oats	18	66-67
Barley	19	68-69
Canola (Rapeseed)	20	70
Flaxseed	21	71-72
Rye	21	73-74
Mixed Grains	22	75-76
Specialty Crops:		
Grain Corn	22	77-78
Sunflowerseed	22	83-84
Field Peas	23	79-80
Buckwheat	23	81-82
Mustard	23	81-82
Lentils	23	—
Canary Seed	23	—
Fababeans	23	—
Field Beans	24	—
Sugar Beets	24	89-90
Corn for Silage	24	87-88
Tame Hay and Pasture	24	85-86
Potatoes	26	91-92
Vegetables	26	97
Ornamental Crops:		
Nursery Stock	27	97
Nursery Sod	27	—
Fruit	28	97
Greenhouse Production	28	—
Mushrooms	28	—
Seed Production:		
Forage Seeds	29	97
Pedigreed Seed	29	—
MARKETING OF MAJOR CROPS	33	93-96
LIVESTOCK PRODUCTION		
Cattle	43	98
Production Value	43	99
Marketings	43	100
Disposal Sales	44	—
Inventory	44	109
Replacement Cattle Marketed in Manitoba	45	—
Prices	47	107-108

	Current Events	Past Trends
	Page	
Hogs	47	98
Production	47	101
Marketings	47	102
Inventory	48	109
Quality	48	—
Prices	48	107-108
Sheep and Lambs	49	98
Marketing	49	103
Prices	50	107-108
Wool Production	50	103
Dairy	50	98
Creamery Butter Production	51	104-105
Cheddar Cheese Production	51	104-105
Total Milk Supply	51	104-105
Milk Cows	51	109
Poultry	52	106
Other Livestock:		
Horses	53	—
Goats	53	—
Rabbits	53	—
OTHER PRODUCTS		
Fur and Wildlife	54	110
Forest Products	54	110
Honey and Alfalfa Leafcutter Bees	54	110
Alfalfa Leafcutter Bees	55	—
RESOURCES		
Land and Farms	56	111-112
Farm Number, Size, Types	57	111-112
Tenure	57	111-112
People:		
Population	58	113
Census Farm Labour	58	113
Farm Wages	58	—
Capital:		
Investment in Agriculture	58	113
Land Values	59	—
Capital Investment	59	113
Machinery	60	115
Fertilizer	60	116
Herbicides	61	—
WEATHER	61	125-126
SOURCES AND METHODS		
Crops	128	
Livestock	129	
Other Products	129	
Resources	130	
Land Values	130	
Income	130	
Agriculture in Perspective	130	
Weather Data	130	
Metric Conversion Factors	130	

TABLES

#	Subject	Page
1	Manitoba Agriculture In Perspective - Relationship to Canadian Agriculture	7
2	Gross Value of Agricultural Production	8
3	1988 Summary of Crop Production	8-9
4	1988 Summary of Livestock Production	10
5	Farm Input Price Indexes, Western Canada	11
6	Farm Product Price Indexes, Manitoba	11
7	Manitoba Farm Cash Receipts, 1986-1988	12
8	Manitoba Farm Expenditures, 1986-1988	13
9	Manitoba Farm Net Income Summary, 1986-1988	14
10	Farm Capital Investment in Manitoba, 1986-1988	14
11	Farm Debt Outstanding, Manitoba, 1986-1988	14
12	Manitoba Farm Structure 1981, 1986	15
13	Area, Yield and Production of Wheat, 1987, 1988	17
14	Area, Yield and Production of Oats, 1987, 1988	18
15	Area, Yield and Production of Barley, 1987, 1988	19
16	Area, Yield and Production of Canola (Rapeseed), 1987, 1988	20
17	Area, Yield and Production of Flaxseed, 1987, 1988	21
18	Area, Yield and Production of Fall Rye, 1987, 1988	22
19	Area, Yield and Production of Tame Hay, 1987, 1988	25
20	Area of Pasture, 1987, 1988	25
21	1988 Fresh Vegetable Production and Farm Value, Manitoba	26-27
22	Value of Production of Floriculture & Nursery	27
23	Production and Value of Forage Seeds, 1988	29
24	Foundation, Registered and Certified Seed Production	30-31
25	Certified Potato Production	32
26	Farm Supply and Disposition of Major Crops, Manitoba, 1983-84 to 1987-88	33-35
27	Stocks of Major Crops on Farms, Manitoba, July 31, 1984-1988	36
28	Producer Marketings, Manitoba, Crop Year 1987/88	36
29	Marketings of Major Crops, Manitoba, Crop Years 1983/84 to 1987/88	37
30	Permit Holders, Quota Areas, Manitoba, 1983/84 to 1987/88	37
31	Estimated Gradings of Wheat and Barley, 1986/87, 1987/88	37
32	Average Protein Content of Spring Wheat in Manitoba, 1987, 1988	38
33	Canadian Wheat Board Monthly Average Cash Grain Prices, Basis In-Store Lower St. Lawrence, 1987-1988:	
	A. 1987/88 Wheat Crop Prices	39
	B. 1987/88 Oat Crop Prices	39
	C. 1987/88 Barley Crop Prices	40
	D. 1987/88 Canola (Rapeseed) Crop Prices	40
	E. 1987/88 Flaxseed Crop Prices	40
	F. 1987/88 Rye Crop Prices	41
34	Grain Stored in Country Elevators at July 31, Manitoba	41
35	Total Grain Supply on Farms by Crop Year, Manitoba	42
36	Grain Storage Capacity in Manitoba, August 1, 1987-1988	43
37	Slaughter Cattle Sold by Month: Manitoba Origin	43
38	Cattle Numbers on Manitoba Farms, June 3, 1986	44
39	Beef Carcasses Graded in Federally & Provincially Inspected Packing Plants	45
40	Cattle Prices, St. Boniface Stockyards, 1988	46
41	St. Boniface Stockyards Prices - Selected Grades	47
42	Slaughter Hog Marketings by Month	48
43	Hog Numbers on Farms, June 3, 1986	48
44	Manitoba Monthly Average Weighted Hog Prices, 1986-1988	49
45	Recorded Sheep and Lamb Marketings from Manitoba	50
46	Volume of Milk and Cream Sold Off Farm	50
47	Cash Receipts from Milk and Cream Sold Off Farm	51
48	Dairy Factory Production by Month, 1988	51
49	Summary of Poultry Production	52
50	Egg Prices to Producers, Winnipeg, 1983-1988	53
51	Manitoba Egg Quota Allocation and Inventory, 1988	53
52	Fur Statistics, 1984/85 to 1987/88	54
53	Honey Prices and Production, Manitoba, 1987, 1988	55
54	Production of Leafcutter Bees and Alfalfa Seed	55
55	Land Use by Area, Manitoba, 1986	56
56	Summerfallow Area, 1986-1988	56
57	Size and Number of Farms by Area, 1986	57

TABLES

#	Subject	Page
58	Farm Types by Area of Land and Number of Animals, 1986	57
59	Farm Classified by Tenure of Operator - 1986 Census	57
60	Average Annual Wages of Farm Labour in Manitoba, 1986-1988	58
61	Average Transaction Prices of Farmlands, 1986-1988	59
62	Capital Investment Per Farm Reporting by Area, 1986	59
63	Value of Farm Capital, by Province, 1984-1988	60
64	Farm Machinery Numbers and Sales	60
65	Sales in Manitoba, July 1 to June 30, 1986 to 19[illegible]	60
66	Herbicides Used for Agricultural Purposes in M[illegible]toba	61
67	Weather Record for the Year 1988, Winnipeg	61
68	Precipitation at Various Manitoba Points, 1988	62
69	Historical Production Value Summary	63
70	Historical Production and Value of Wheat	64-65
71	Historical Production and Value of Oats	66-67
72	Historical Production and Value of Barley	68-69
73	Historical Production and Value of Canola (Rapeseed)	70
74	Historical Production and Value of Flaxseed	71-72
75	Historical Production and Value of All Rye	73-74
76	Historical Production and Value of Mixed Grains	75-76
77	Historical Production and Value of Grain Corn	77-78
78	Historical Production and Value of Field Peas	79-80
79	Historical Production and Value of Buckwheat	81-82
80	Historical Production and Value of Mustard Seed	81-82
81	Historical Production and Value of Sunflowers	83-84
82	Historical Production and Value of Tame Hay	85-86
83	Historical Production and Value of Silage Corn	87-88
84	Historical Production and Value of Sugar Beets	89-90
85	Historical Production and Value of Potatoes	91-92
86	Historical Marketings of Major Crops	93-94
87	Historical Quantities of Major Grain Stocks on Farms at July 31	95-96
88	Historical Production Value of Horticultural Crops and Forage Seeds	97
89	Historical Value of Livestock Production	98
90	Historical Production and Value of Cattle	99
91	Historical Commercial Marketings of Cattle - Manitoba Origin	100
92	Historical Production and Value of Hogs	101
93	Historical Commercial Hog Marketings - Manitoba Origin	102
94	Historical Sheep and Wool Production and Value	103
95	Historical Dairy Production and Value	104-105
96	Historical Poultry Production Value	106
97	Historical Livestock Prices by Grade, St. Boniface Stockyards	107-108
98	Historical Numbers of Livestock on Farms - July 1	109
99	Historical Production Value of Other Farm Products	110
100	Census Land Use, Manitoba Farms, 1941-1986	111-112
101	Census Farm Numbers and Size, 1941-1986	111-112
102	Census Farm Area Land Use by Tenure, 1941-1986	111-112
103	Census Farm and Total Population, 1941-1986	113
104	Percentage of Persons in Manitoba Farm Households, 15 Years of Age and Over in the Labour Force by Occupation, 1971, 1981, and 1986	113
105	Census Capital Investment Values, 1941-1986	113
106	Historical Quantities of Grain Used for Feed and Seed on Manitoba Farms	114
107	Historical Numbers of Machinery on Farms, 1951-1986	115
108	Historical Sales of Selected Farm Machinery in Manitoba, 1954-1988	115
109	Historical Sales of Fertilizers, 1961-1988	116
110	Farm Input Price Indices, Western Canada (1981 = 100), 1975-1988	117
111	Farm Product Price Indices (1981 = 100), 1981-88	118
112	Manitoba Farm Cash Receipts, 1954-1988	119
113	Manitoba Farm Cash Receipts from Crop Sales, 1954-1988	120
114	Manitoba Farm Cash Receipts from Livestock Sales, 1954-1988	121
115	Manitoba Farm Cash and Overhead Expenses, 1954-1988	122
116	Manitoba Farm Income Summary, 1954-1988	123
117	Per Farm Total Net Income and Receipts, Manitoba, 1954-1988	124
118	Price Index of Farm Products (1981 = 100)	124
119	Monthly Precipitation in Manitoba, 1963-1988	125-126
120	Selected Seasonal Data for Manitoba, 1954-1988	127

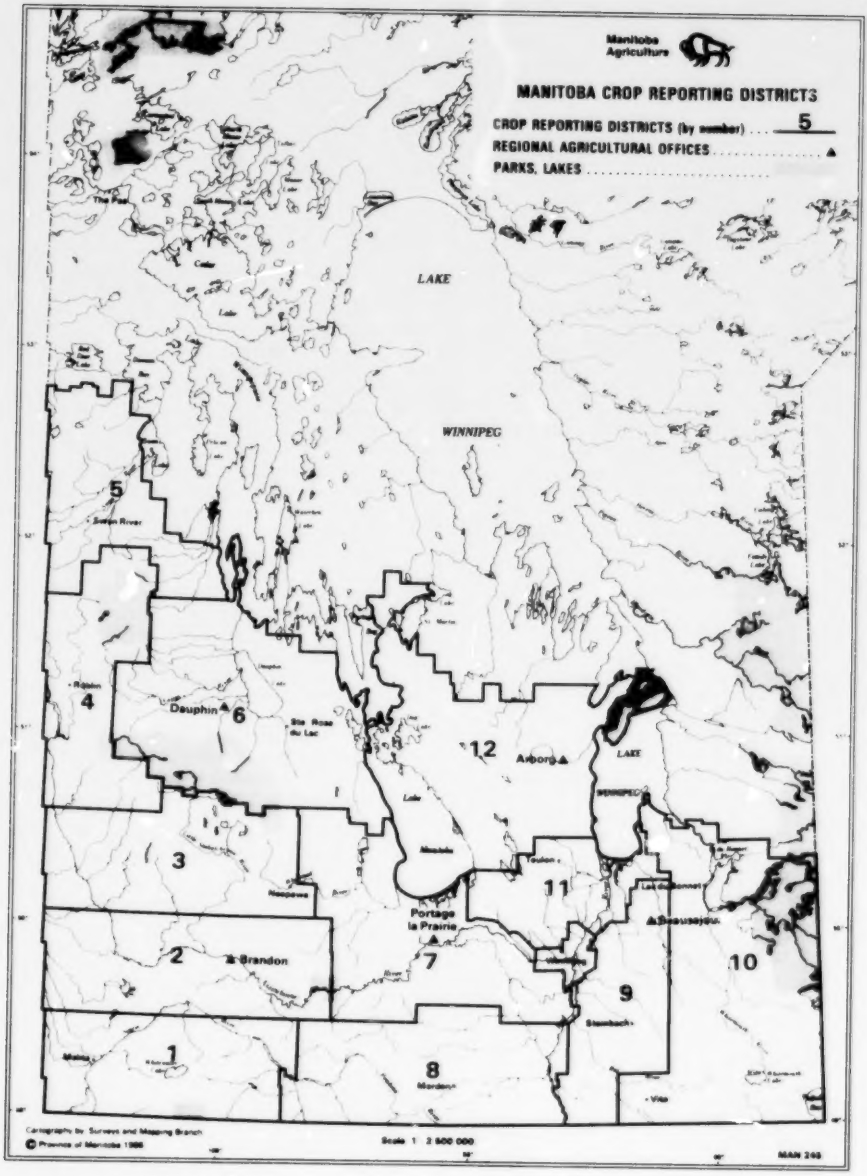
Manitoba Agriculture
MANITOBA CROP REPORTING DISTRICTS
CROP REPORTING DISTRICTS (by number) ... 5
REGIONAL AGRICULTURAL OFFICES ... ▲
PARKS, LAKES ...
LAKE
WINNIPEG
Dauphin
Arborg
Portage la Prairie
Brandon
Steinbach
Beausejour
Cartography by: Surveys and Mapping Branch
© Province of Manitoba 1988
Scale 1 : 2 500 000
MAN 240

TABLE 1 **Manitoba Agriculture in Perspective - Relationship to Canadian Agriculture**

Quantity	Canada Quantity	Manitoba of Canada	Per cent
Crop Production 1988	- thousand tonnes -		
Wheat (all)	15 654.9	2 400.9	15.3
Oats	2 993.4	224.0	7.5
Barley	10 125.1	1 045.0	10.3
Flaxseed	413.9	198.0	47.8
Canola (Rapeseed)	4 243.0	612.0	14.4
	- thousand bushels -		
Wheat (all)	575,210.0	88,200.0	15.3
Oats	194,070.0	14,500.0	7.5
Barley	465,060.0	48,000.0	10.3
Flaxseed	16,300.0	7,800.0	47.8
Canola (Rapeseed)	187,100.0	27,000.0	14.4
	- 000 -		
Livestock and Poultry Production, 1986			
Cattle and Calves, June 3	11,997,608	1,114,720	9.3
Sheep and Lambs, June 3	700,935	24,693	3.5
Hogs, June 3	9,756,569	1,071,195	11.0
Egg Production, June 3 (doz.)[1]	443,132	49,251	11.1
Milk and Cream Sales (kl)	7 283 222	291 317	4.0
	Number		
Livestock Slaughterings, 1988			
Slaughter Cattle and Calves	3,311,305	183,268	5.5
Hogs (Slaughterings)	14,875,606	1,800,439	12.1
Sheep and Lambs	54,185	4,558	8.4
	- thousand dollars -		
Farm Income, 1988			
Farm Income, 1988	22,143,863	2,067,988	9.3
Cash and Overhead Expenses, 1988	17,253,627	1,639,700	9.5
Farm Realized Net Income, 1988	4,890,236	428,288	8.8
Resources (1986 Census Farms)			
Land in Farms (hectares)	67 825 756	7 740 226	11.4
Improved Land (hectares)	45 009 991	5 403 077	11.7
Land in Farms (acres)	167,601,113	19,126,517	11.4
Improved Land (acres)	113,693,178	13,351,296	11.7
Farm Numbers	293,089	27,336	9.3
Farm Population	930,730	86,505	9.3
Tractors on Farms	728,074	73,945	10.2
	- thousand dollars -		
Capital Investment, 1988	103,384,833	8,670,739	8.4
Land and Buildings	73,001,399	5,633,511	7.7
Machinery and Equipment	20,777,140	2,281,965	11.0
Livestock and Poultry	9,606,294	755,263	7.9

[1]This value reported in the 1986 Census output is for 1985. The number for 1986 is presented on page 8.

1988 VALUE OF FARM PRODUCTION

Manitoba total value of agricultural production in 1988 was estimated at $1,789.7 million. This represented an 8.3 per cent decline below the revised 1987 value of $1,952.3 million and 10.3 per cent less than the revised 1986 value of $1,995.6 million. The value of crop production was $962.9 million, 15.2 per cent less than in 1987 but 20.0 per cent below the 1986 value of $1,203.3 million. Higher commodity prices in most instances were not enough to counteract the declined production of major crops.

Livestock production was valued at $792.2 million, 1.8 per cent higher than 1987. In this instance, higher prices for cattle, sheep and lambs and increased poultry and dairy receipts contributed to the increase in total livestock receipts.

TABLE 2 Gross Value of Agricultural Production (million dollars)

	1986	1987[R]	1988[P]
Crops	1,203.3	1,135.8	962.9
Livestock and Products	755.5	777.9	792.2
Honey & Wax[1]	13.1	14.2	13.7
Other (Fur, Wildlife, PMU, Forest, etc.)	23.7	24.4	20.9
Total	**1,995.6**	**1,952.3**	**1,789.7**

[1]Includes values estimated for alfalfa leafcutter bees for 1986 and 1987.
R = Revised. P = Preliminary.

TABLE 3A 1988 Summary of Crop Production

Crop	Yield Per Hectares (000)	Hectare (tonnes)	Production (000 tonnes)	Farm Value Per Tonne $	Farm Value Total ($000)
Wheat	1 950.1	1.23	2 400.9	122.00	292,021
Oats	223.0	1.38	224.0	113.00	25,312
Barley	607.0	1.84	1 045.0	86.00	89,546
Flaxseed	283.0	0.70	198.0	274.00	54,254
Canola (Rapeseed)	627.0	0.98	612.0	300.00	183,624
Rye	40.5	1.19	48.0	109.00	5,254
Mixed Grains	28.3	1.50	43.0	94.00	4,040
Grain Corn	32.4	3.21	104.0	107.00	11,134
Field Peas	72.8	1.08	78.9	215.00	16,963
Buckwheat	20.2	1.25	12.4	254.00	3,150
Sunflowerseed	34.4	1.24	42.6	190.00	8,094
Mustard Seed	8.1	0.84	8.2	221.00	1,812
Canary Seed	10.1	0.26	7.7	176.0	1,355
Lentils	12.1	0.60	7.3	265.00	1,934
Forage Seeds	—	—	—	—	8,000
Other Special Crops	13.2	—	—	—	6,000
All Tame Hay	647.0	2.66	1 724.0	79.00	136,300
Silage Corn	10.1	14.40	145.0	14.00	2,020
Sugar Beets	9.1	24.98	227.3	42.00	9,548
Horticulture					
Potatoes	17.8	19.6	333.3	153.45	51,150
Vegetables	1.3	—	17.8	—	8,852
Fruits	—	—	—	—	3,500
Greenhouse and Mushrooms	—	—	—	—	15,500
Nursery Products and Sod	—	—	—	—	12,000
Miscellaneous	—	—	—	—	5,000
Others Crops	8.0	—	—	—	6,500
TOTAL	**4 655.9**	**—**	**—**	**—**	**962,863**

NOTE: Numbers may not all add due to rounding and/or metric conversion.

SOURCE: Statistics Canada; Manitoba Agriculture.

TABLE 3B **1988 Summary of Crop Production**

	Yield Per Acres (000)	Acre (bushels)	Production (000 bushels)	Farm Value Per Bushel $	Farm Value Total ($000)
Wheat	4,820.0	18.3	88,200.0	3.31	292,021
Oats	550.0	26.4	14,500.0	1.75	25,312
Barley	1,500.0	32.0	48,000.0	1.87	89,546
Flaxseed	700.0	11.1	7,800.0	6.96	54,254
Canola (Rapeseed)	1,550.0	17.4	27,000.0	6.80	183,624
Rye	100.0	16.5	1,900.0	2.77	5,254
Mixed Grains	70.0	30.0	2,100.0	1.92	4,040
Grain Corn	80.0	51.2	4,100.0	2.72	11,134
Field Peas	180.0	16.1	2,900.0	5.85	16,963
Buckwheat	50.0	11.4	570.0	5.53	3,150
		(pounds)	(000 pounds)	(per pound)	
Sunflowerseed	85.0	1,106	94,000.0	0.09	8,094
Mustard Seed	20.0	900	18,000.0	0.10	1,812
Canary Seed	25.0	680	17,000.0	0.08	1,355
Lentils	30.0	533	16,000.0	0.12	1,934
Forage Seeds	—	—	—	—	8,000
Other Special Crops	32.5	—	—	—	6,000
		(tons)	(000 tons)	(per ton)	
All Tame Hay	1,600.0	1.19	1,900.0	72.00	136,300
Silage Corn	25.0	6.40	160.0	12.62	2,020
Sugar Beets	22.6	11.10	251.0	38.00	9,548
Horticulture					
Potatoes	42.0	8.75	367.5	139.53	51,150
Vegetables	3.2	—	19.6	—	8,852
Fruits	—	—	—	—	3,500
Greenhouse and Mushrooms	—	—	—	—	15,500
Nursery Products and Sod	—	—	—	—	12,000
Miscellaneous	—	—	—	—	5,000
Others Crops	19.8	—	—	—	6,500
TOTAL	**11,505.1**	—	—	—	**962,863**

NOTE: Numbers may not all add due to rounding/metric conversion.

SOURCE: Statistics Canada; Manitoba Agriculture.

TABLE 4 1988 Summary of Livestock Production

	Number (000)	Value Per Unit $	Total Value ($000)
CATTLE:			
Commercial Marketings (including exports)	424.9		
Inventory Change	-15.0		
Local Slaughterings	10.0		
Minus Inshipments	24.7		
TOTAL CATTLE	**395.2**	**734.00**	**290,000**
HOGS:			
Commercial Marketings (including exports)	2,108.0		
Inventory Change	36.0		
Local Slaughterings	21.5		
TOTAL HOGS	**2,165.5**	**105.00**	**228,000**
SHEEP AND LAMBS:			
Commercial Marketings	21,100		2,152
Wool - kilograms	35 800		49
- pounds	78,900		
TOTAL SHEEP & LAMBS & WOOL			2,201
DAIRY PRODUCTS:			
Milk Equivalent - kilolitres	311,111		118,214
Supplementary Payments			10,980
TOTAL DAIRY PRODUCTS			129,194
POULTRY:			
Eggs (dozens)	55,346		55,294
Meat			58,628
Other			8,628
TOTAL POULTRY			122,550
Other Livestock			20,285
TOTAL LIVESTOCK PRODUCTION			**792,230**

SOURCE: Statistics Canada; Agriculture Canada; Manitoba Agriculture

TABLE 5 Farm Input Price Indexes (1981 = 100), Western Canada

	1986	1987	1988
Total Farm Input	**108.2**	**109.6**	**111.2**
Buildings and Fencing	123.2	126.7	127.1
Machinery and Motor Vehicles	116.6	115.4	116.3
Crop Production	100.6	94.6	93.7
Animal Production	108.8	119.6	121.8
Supplies and Services	122.3	124.5	126.6
Hired Farm Labour	121.6	123.8	128.8
Property Taxes	145.6	146.3	152.5
Interest	78.5	75.7	79.9
Farm Rent	98.3	82.4	80.7

SOURCE: Statistics Canada, Cat. No. 62-004, Fourth Quarter, 1988.

TABLE 6 Farm Product Price Indexes (1981 = 100), Manitoba

	1986	1987	1988
Total Index	**85.0**	**79.0**	**84.9**
Total Crops	**69.3**	**58.1**	**71.8**
Cereals	65.6	53.7	64.0
Oilseeds	77.4	64.6	100.9
All Other Crops[1]	89.6	89.1	83.4
Total Livestock and Produce	**111.8**	**114.7**	**107.4**
Cattle and Calves	107.1	116.9	112.4
Hogs	123.3	120.4	91.9
Poultry	103.2	100.4	103.9
Eggs	100.7	96.9	105.0
Dairy	118.8	117.4	123.7
Other Livestock and Produce[2]	90.0	90.8	80.6

[1]Includes fruits, vegetables (including potatoes), sugar beets and sunflowerseed.
[2]Includes lambs, honey and fur.

SOURCE: Statistics Canada, Cat. No. 62-003.

TABLE 7 Manitoba Farm Cash Receipts, 1986-1988

	1986	1987	1988
	-- thousands of dollars --		
Wheat — Excluding Durum	455,737	378,562	368,842
Wheat — Excluding Durum, CWB Payments[1]	58,243	—	44,142
Durum wheat	20,580	24,498	22,621
Durum wheat, CWB Payments[1]	3,208	2,940	5,212
Oats	8,596	6,931	12,196
Oats, CWB Payments[1]	434	613	1,055
Barley	137,483	61,896	60,603
Barley, CWB Payments[1]	9,423	1,863	2,669
Deferred Grain Receipts	-62,435	-64,580	-94,542
Liquidation of Deferred Grain Receipts	79,348	62,435	64,580
Rye	3,976	2,850	4,934
Flaxseed	83,102	62,689	73,190
Canola	125,064	108,806	136,860
Corn	6,603	6,446	10,285
Sugar Beets	8,109	8,787	9,383
Potatoes	29,404	45,164	49,949
Vegetables	15,754	16,282	15,196
Floriculture and Nursery	8,218	9,682	10,278
Mustard Seed	3,231	1,446	1,989
Sunflowerseed	6,204	5,832	7,989
Lentils	5,475	8,365	1,904
Canary Seed	5,670	2,124	1,377
Dry Peas	23,290	24,269	14,419
Forage and Grass Seed	15,195	12,579	10,795
Hay and Clover	509	665	921
Forest Products	1,471	1,491	1,516
Miscellaneous Crops	14,726	11,097	11,738
TOTAL CROPS	**1,066,618**	**803,732**	**850,101**
Cattle	264,577	273,841	248,272
Calves	28,864	48,709	51,465
Hogs	242,080	252,722	218,757
Sheep	49	78	192
Lambs	1,857	1,805	1,519
Dairy Products	106,782	110,246	118,185
Hens and Chickens	35,866	35,306	37,021
Turkeys	14,384	15,134	16,103
Eggs	46,006	45,655	49,619
Wool	39	47	68
Honey	9,772	8,424	8,182
Furs	937	2,546	1,904
Miscellaneous Livestock	20,283	21,451	20,285
TOTAL LIVESTOCK AND PRODUCTS	**771,496**	**815,964**	**771,572**
Crop Insurance Payments[2]	47,947	45,017	92,745
Western Grain Stabilization Payments	150,797	260,112	131,154
Agricultural Stabilization Act			
— Price Stabilization	2,864	5,352	5,276
— Tripartite Plans	—	—	13,759
Provincial Stabilization Programs	19,463	249	656
Dairy Subsidy	10,628	11,071	10,980
Other Payments	6,047	155,756	177,323
TOTAL DIRECT PAYMENTS	**237,746**	**477,557**	**431,893**
TOTAL CASH RECEIPTS	**2,075,860**	**2,097,253**	**2,053,566**

[1]Participation payments made by the CWB to producers for crops delivered in previous year.
[2]Includes payments under the Crop Insurance Act and private hail insurance plans.

SOURCE: Statistics Canada, Cat. No. 21-003; Agriculture Canada; Manitoba Agriculture.

TABLE 8 MANITOBA FARM EXPENDITURES, 1986-1988

	1986	1987	1988
	--- thousands of dollars ---		
Property Taxes	47,373	49,604	51,588
Rebates	8,854	18,780	21,400
Net Property Taxes	**38,519**	**30,824**	**30,188**
Cash Rent	72,866	52,835	49,189
Share Rent	25,495	23,010	21,376
Total Rent	**98,361**	**75,845**	**70,565**
Cash Wages	99,200	99,855	96,660
Room & Board	1,491	1,480	1,447
Total Wages	**100,691**	**101,335**	**98,107**
Interest	168,260	165,374	169,703
Rebates	8,597	2,100	1,877
Net Interest	**159,663**	**163,274**	**167,826**
Repairs to Bldg.	26,648	29,919	31,116
Repairs to Fences	4,826	5,689	5,917
Bldg. & Fence Repairs	**31,474**	**35,608**	**37,033**
Electricity	30,871	31,776	33,206
Telephone	7,724	8,248	8,908
Heating Fuel	11,455	8,580	7,962
Net Heating Fuel	11,455	8,580	7,962
Total	**50,050**	**48,604**	**50,076**
Machinery Fuel	149,292	144,536	131,383
Rebates	6,849	5,476	7,435
Net Machinery Fuel	142,443	139,060	123,948
Machinery Repairs & Other	130,810	136,157	135,476
Total Machinery	**273,253**	**275,217**	**259,424**
Fertilizer	198,446	187,191	176,147
Net Fertilizer	198,446	187,191	176,147
Total Fertilizer & Lime	**198,446**	**187,191**	**176,147**
Pesticides	106,100	107,310	97,759
Net Pesticides	106,100	107,310	97,759
Commercial Seed	47,449	44,428	43,495
Twine, Wire & Containers	5,893	6,095	6,339
Crop & Hail Insurance	36,602	33,309	30,357
Total Other Crop	**196,044**	**191,142**	**177,950**
Commercial Feed	151,630	153,938	175,643
Net Feed	**151,630**	**153,938**	**175,643**
Livestock Purchases	13,912	14,989	14,730
A.I. & Veterinary	11,956	13,844	14,799
Net A.I. & Veterinary	11,956	13,844	14,799
Total Other Livestock	**25,868**	**28,833**	**29,529**
Business Insurance	8,727	9,915	10,411
Custom Work	12,244	26,412	27,468
Stabilization Premiums	19,430	16,667	22,162
Other	36,106	35,650	35,444
Total Miscellaneous	**76,507**	**88,644**	**95,485**
Operating Expenses Before Rebates	1,424,806	1,406,811	1,398,685
Total Rebates	24,300	26,356	30,712
Operating Expenses After Rebates	**1,400,506**	**1,380,455**	**1,367,973**
Depreciation on Bldg.	19,010	17,679	16,265
Depreciation on Machinery	251,992	247,653	255,462
Total Depreciation	**271,002**	**265,332**	**271,727**
TOTAL EXPENSES BEFORE REBATES	**1,695,808**	**1,672,143**	**1,670,412**
TOTAL REBATES	**24,300**	**26,356**	**30,712**
TOTAL EXPENSES AFTER REBATES	**1,671,508**	**1,645,787**	**1,639,700**

SOURCE: Statistics Canada; Agriculture Canada; Manitoba Agriculture.

Cash Income

Farm income includes proceeds from the sale of agricultural products sold off farm through regular market channels. All deficiency, supplementary and final Canadian Wheat Board payments are included. In 1988, farm income was estimated at $2.068 billion, 2.1 per cent below the 1987 level of $2.112 billion and 1.1 per cent over the 1986 level of $2.090 billion (nominal dollars), respectively.

Farm Net Income

Realized net farm income is determined by adding total cash receipts, income-in-kind and total payments and subtracting total expenses and depreciation charges. In 1988, realized net farm income amounted to $428.3 million, 8.0 per cent less than 1987. Realized net farm income per farm in 1988 was estimated at $15,863, 7.0 per cent less than the 1987 value of $17,056 and 15.7 per cent below the 1986 estimate of $18,813*.

* Based on 1986 Census (27,336 farms), 1987 estimate 27,336, and 1988 estimate 27,000.

TABLE 9 Manitoba Farm Income Summary, 1986 - 1988

	1986	1987	1988
	millions of dollars		
Cash Receipts	1,838.1	1,619.7	1,621.7
Total Payments	237.8	477.6	431.9
Total Farm Receipts	2,075.9	2,097.3	2,053.6
Income-In-Kind	14.3	14.8	14.4
Realized Gross Income	2,090.2	2,112.1	2,068.0
Expenses	1,400.5	1,380.5	1,368.0
Depreciation Charges	271.0	265.3	271.7
Realized Net Income	418.7	466.3	428.3
Value of Inventory Change	-35.0	-78.3	-232.6
TOTAL NET INCOME	383.7	388.0	195.7

SOURCE: Statistics Canada; Agriculture Canada.

TABLE 10 Farm Capital Investment in Manitoba, 1986-1988

	1986	1987[R]	1988[P]
	thousands of dollars		
Land and Buildings	6,584,281	6,123,381	5,633,511
Machinery and Equipment	2,231,162	2,207,686	2,281,965
Livestock and Poultry	727,564	871,391	755,263
TOTAL	9,543,007	9,202,458	8,670,739

SOURCE: Statistics Canada.

TABLE 11 Farm Debt Outstanding, Manitoba, 1986-1988

	1986	1987[R]	1988[P]
	thousands of dollars		
Chartered Banks[1]	804,000	667,338	N.A.
Federal Government Agencies[2]	407,317	395,022	N.A.
Provincial Government Agencies	226,110	230,274	N.A.
Credit Unions	245,691	270,968	N.A.
Insurance, Trust, Loan Companies	8,816	8,816	N.A.
Others[3]	222,965	232,252	N.A.
TOTAL[4]	1,914,899	1,804,670	N.A.

[1]Includes loans under F.I.L.A.
[2]Includes F.C.C., V.L.A. and F.B.D.B.
[3]Includes supply companies, dealers, and stores.
[4]Totals may not add due to rounding.

SOURCE: Statistics Canada.

TABLE 12A Manitoba Farm Structure 1981, 1986

People and Land	1981 Census	1986 Census
Total Manitoba Population	1,026,241	1,071,232
Farm Population	98,375	86,505
Total Manitoba Land Base (thousand units)		
Hectares	54 770	54 770
Acres	135,342	135,342
Farmland		
Hectares	7 736	7 740
Acres	19,115	19,126
Improved		
Hectares	5 504.0	5 403.1
Acres	13,600.6	13,351.3
Cropland: (thousand units)		
Seeded to Crops:		
Hectares	4 420.4	4 519.3
Acres	10,923.0	11,167.5
Summerfallow:		
Hectares	598.3	509.2
Acres	1,478.5	1,258.3
Hay and Pasture:		
Hectares	2 497.7	2 541.0
Acres	6,172.0	6,279.0
Other Improved:		
Hectares	132.8	99.6
Acres	328.1	246.7
Unimproved:		
Hectares	2 231.0	2 337.1
Acres	5,513.0	5,775.2

SOURCE: Statistics Canada.

TABLE 12B Manitoba Farm Structure, 1981, 1986 (cont'd)

Farms and Tenure of Operators	1981 Census	1986 Census
Census Farms	29,442	27,336
Average Size per Census Farm		
Hectares	263	283
Acres	649	700
Average Value per Unit		
Hectares	$1,028.86	$850.66
Acres	$416.36	$344.25
Average Capital per Farm	$354,968.00	$349,525.00
Average Realized Net Income per Farm	$7,928.00	$18,406.00
Average Debt per Farm	$52,269.00	$71,603.00
Average Expenses per Farm	$49,249.00	$61,828.00
Type of Organization		
Individual/Family Farm	25,701	27,336
Partnership		
With written agreement	688	761
With no written agreement	1,965	2,468
Corporation		
Family	882	1,035
Other	85	81
Institution	—	16
Community Pasture	—	29
Other	—	77
Tenure of Operators		
Owner	16,083	25,091
Tenant	2,259	—
Part-Owner, Part-Tenant	11,100	—
Rent/Leasing	—	13,552

SOURCE: Statistics Canada.

CROP PRODUCTION

General Conditions

Provincially, the spring of 1988 was one of the driest on record. Some parts of Manitoba received no precipitation for up to three weeks or more during April. The overall situation is similar to that of 1987 although fields were not drying up as quickly as in 1987.

The 1987/88 winter snowfall was below normal with the result that topsoil was left dry. Still subsoil reserves were generally adequate. Initial reports were that farmers were able to do some fieldwork. Wind erosion was common in many parts of the province and heavy blowing of topsoil occurred.

By the end of April seeding was limited in most regions of the province with more activity in the Eastern Region. In early May, rains came and reduced fears of drought conditions in southern Manitoba. By June 10, 1988, hot, dry and windy conditions had been occurring for the last weeks. The average precipitation from April 1 to June 12 was only 72 per cent of the normal. Most of southern Manitoba received below 50 per cent of the normal and areas around Morden received less than 25 per cent of normal. Crops were reported to be vulnerable to weather changes at this point of the growing season.

As at June 10, 1988, crop development was generally much slower than at the same time in 1987. Cereal crops were fair, oilseeds and special crops were poor to fair. Similarly, hay and pastures were in poor condition.

At July 10, cumulative rainfall levels in Manitoba since April 1, 1988 was 22 per cent below normal compared with a level 18 per cent normal of a year ago. Southern Manitoba was most seriously affected by the above-normal temperatures and lack of moisture. Though rains came over the last few weeks, much more was needed to foster good development and maturation of crops.

Most crops were rated in fair to poor condition. Drought conditions were affecting yield potentials. Prognostication at this time was that early seeded crops had little hope of revival but that late seeded crops could recover with good rainfall.

To August 7, 1988, cumulative rainfall since April 1 to August 7 was 28 per cent below normal compared with 22 per cent below normal for the period a year ago. Drought conditions continue to adversely affect yields. Soil moisture levels throughout were rated poor to fair.

Crops were in poor to fair condition and anticipated crop yields were expected to be significantly below normal.

Above normal weed infestations were prevalent especially in canola. Common weeds were abundant as farmers cut back use of insecticides. The feed supply situation was variable - poor to adequate and pastures and hay were expected to yield below normal.

At September 11, 1988, both topsoil and subsoil moisture levels were very low; the same situation prevailing for most of the 1988 growing season. The rainfall for the period April 1 to September 11, averaged 251.3 mm, compared with 324.1 mm recorded in 1987. Harvesting of cereal grains was nearing completion and most of the oilseed crops had been combined. The harvesting of special crops was well advanced at this point in time.

By the end of September, the major 1988 harvest was essentially completed. Harvesting of special crops was progressing rapidly.

WHEAT

One million, nine hundred and fifty thousand, one hundred hectares (4,820,000 acres) were planted in 1988. Total production was estimated at 2 400 900 tonnes (88,200,000 bushels), a fall of 39 per cent below the 1987 level. The 1988 wheat crop had an estimated value of production of $292.0 million, a 26.0 per cent decline below the revised 1987 value of $394.7 million. The area seeded, average yields and total production for 1987 and 1988 are shown below.

TABLE 13 Area, Yield and Production of Wheat, 1987, 1988

	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
Crop District	**1987**	**1988**	**1987**	**1988**	**1987**	**1988**
1	283	267	1 496	1 040	423	278
2	242	240	1 885	1 020	456	244
3	221	219	2 202	1 380	487	302
4	89	87	1 954	1 660	175	145
5	85	79	1 821	2 120	155	168
6	139	129	1 827	1 670	254	215
7	266	266	2 286	1 100	608	293
8	335	340	2 194	960	736	326
9	143	154	2 237	1 190	320	183
10	18	19	1 884	1 580	34	30
11	91	95	2 143	1 420	195	135
12	51	54	2 057	1 520	104	83
PROVINCE	**1 963**	**1 950**	**2 010**	**1 230**	**3 947**	**2 401**

	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
Crop District	**1987**	**1988**	**1987**	**1988**	**1987**	**1988**
1	698	660	22.2	15.5	15,530	10,203
2	598	592	28.0	15.1	16,759	8,952
3	547	541	32.7	20.5	17,885	11,084
4	221	216	29.0	24.5	6,398	5,299
5	211	198	27.0	31.2	5,676	6,174
6	343	321	27.2	24.6	9,342	7,895
7	657	656	34.0	16.5	22,356	10,801
8	826	841	32.8	14.3	27,096	12,009
9	353	380	33.3	17.7	11,772	6,724
10	45	47	27.6	23.2	1,246	1,090
11	225	234	31.6	21.1	7,133	4,940
12	125	134	30.4	22.6	3,807	3,029
PROVINCE	**4,850**	**4,820**	**29.9**	**18.3**	**145,000**	**88,200**

SOURCE: Statistics Canada.

Durum wheat is included with total wheat production statistics. In 1988 the seeded area was estimated at 121 000 hectares (300,000 acres), down 14.8 per cent from the 1987 level. Average yield was 1 080 kilograms per hectare (16.0 bushels per acre) compared to 1 820 kilograms (27.1 bushels) in 1987. Total production was estimated at 131 000 tonnes (4,800,000 bushels), a decrease of 49.4 per cent from 1987.

OATS

Total production of oats in 1988 was estimated at 224 000 tonnes (14.5 million bushels) with a total farm value of $25.3 million, down 1.9 per cent below the revised value of $25.8 million in 1987. A 39.7 per cent fall in average yield in 1988 resulted in a 46.1 per cent decrease in total production from the previous year.

TABLE 14 Area, Yield and Production of Oats, 1987, 1988

Crop District	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1987	1988	1987	1988	1987	1988
1	15	9	1 867	1 000	28	9
2	25	20	2 160	1 150	54	23
3	17	16	2 353	1 500	40	24
4	7	6	2 286	1 670	16	10
5	11	11	2 000	1 820	22	20
6	18	19	2 222	1 470	40	28
7	33	32	2 515	1 250	83	40
8	14	13	2 571	1 310	36	17
9	16	12	2 625	1 420	42	17
10	5	4	2 000	1 500	10	6
11	10	11	2 200	1 450	22	16
12	11	9	2 091	1 560	23	14
PROVINCE	**182**	**162**	**2 290**	**1 380**	**416**	**224**

Crop District	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
	1987	1988	1987	1988	1987	1988
1	38	23	47.8	26.1	1,815	601
2	61	50	57.3	29.7	3,493	1,487
3	41	40	63.6	39.6	2,607	1,583
4	17	16	60.6	40.6	1,030	650
5	27	26	53.6	50.7	1,447	1,318
6	44	46	58.4	39.6	2,569	1,821
7	81	78	66.6	33.3	5,396	2,600
8	37	32	64.6	29.3	2,389	936
9	41	30	65.6	37.0	2,691	1,109
10	12	10	51.7	40.6	620	406
11	24	26	60.2	40.9	1,445	1,063
12	27	23	55.5	40.3	1,498	926
PROVINCE	**450**	**400**	**60.0**	**36.3**	**27,000**	**14,500**

SOURCE: Statistics Canada.

Oats for hay is not included in the above data. In 1988, 20 235 hectares (50,000 acres) of oats were planted and cut for hay.

BARLEY

Barley production in 1988 was 1 045 000 tonnes (48,000,000 bushels), down 46.1 per cent from the 1987 level. Five hundred and sixty-seven thousand hectares (1,400,000 acres) were harvested yielding an average of 1 840 kilograms per hectare (34.3 bushels per acre). The total farm value of production was $89.5 million, down 6.9 per cent from the 1987 level. The area, yield and production of the 1987 and 1988 barley crops are shown below. Twenty thousand, two hundred thirty-five hectares (50,000 acres) were planted and cut for fodder in 1988.

TABLE 15 Area, Yield and Production of Barley, 1987, 1988

	Harvested Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
Crop District	**1987**	**1988**	**1987**	**1988**	**1987**	**1988**
1	64	51	2 172	1 550	139	79
2	99	79	2 658	1 670	263	132
3	97	88	3 041	1 940	295	171
4	27	23	2 778	2 350	75	54
5	31	30	2 516	2 770	78	83
6	36	32	2 694	2 310	97	74
7	95	76	3 042	1 710	289	130
8	107	81	2 963	1 420	317	115
9	54	42	3 111	1 620	168	68
10	7	6	2 429	2 330	17	14
11	45	37	2 933	2 160	132	80
12	26	22	2 615	2 050	68	45
PROVINCE	**688**	**567**	**2 820**	**1 840**	**1 938**	**1045**

	Harvested Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
Crop District	**1987**	**1988**	**1987**	**1988**	**1987**	**1988**
1	159	125	40.3	29.1	6,404	3,634
2	245	195	49.3	31.1	12,074	6,063
3	239	217	56.7	36.1	13,541	7,841
4	66	58	52.0	42.5	3,429	2,466
5	76	75	47.1	50.5	3,577	3,790
6	90	80	49.3	42.5	4,439	3,400
7	235	187	56.4	31.8	13,264	5,953
8	263	199	55.6	27.0	14,627	5,368
9	134	103	57.4	30.3	7,695	3,117
10	18	15	43.6	41.6	784	624
11	111	91	54.5	40.6	6,052	3,697
12	64	55	48.7	37.2	3,114	2,047
PROVINCE	**1,700**	**1,400**	**52.4**	**34.3**	**89,000**	**48,000**

SOURCE: Statistics Canada.

Canola (rapeseed) plantings were 627 000 hectares (1,550,000 acres) in 1988, 54.8 per cent more than in 1987. The average yield was estimated at 980 kilograms per hectare (17.4 bushels per acre). The total value of farm production from canola (rapeseed) was estimated at $183.6 million, essentially the same as in 1987.

TABLE 16 Area, Yield and Production of Canola (Rapeseed), 1987, 1988

Crop District	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
	1987	1988	1987	1988	1987	1988
1	51.3	95.4	1 454	780	74.6	74 4
2	37.8	59.4	1 410	890	53.3	53.1
3	52.0	81.5	1 529	1 250	79.5	101.6
4	23.4	35.7	1 517	1 330	35.5	47.6
5	10.8	19.1	1 259	1 340	13.6	25.6
6	41.4	58.4	1 350	1 180	55.9	68.8
7	70.4	104.4	1 466	960	103.2	100.5
8	71.3	105.8	1 477	680	105.3	72.1
9	17.5	27.3	1 474	820	25.8	22.4
10	3.4	4.0	1 265	1 150	4.3	4.6
11	11.7	18.9	1 333	1 120	15.6	21.2
12	14.0	17.1	1 314	1 180	18.4	20.1
PROVINCE	**405.0**	**627.0**	**1 440**	**980**	**585.0**	**612.0**

Crop District	Acres (000)		Planted per Acre (bushels)		Yield Production (000 bushels)	
	1987	1988	1987	1988	1987	1988
1	126.8	235.7	25.9	13.9	3,288	3,283
2	93.3	146.8	25.2	16.0	2,351	2,342
3	128.6	201.4	27.3	22.3	3,507	4,481
4	57.8	88.1	27.1	23.8	1,566	2,099
5	26.8	47.1	22.4	23.9	601	1,127
6	102.3	144.4	24.1	21.0	1,464	3,036
7	174.0	258.0	26.1	17.2	4,548	4,431
8	175.0	262.2	26.5	12.2	4,644	3,188
9	43.3	67.4	26.3	14.7	1,140	988
10	8.5	9.8	22.3	20.8	190	204
11	29.0	46.8	23.7	20.0	689	935
12	34.6	42.3	23.5	21.0	813	887
PROVINCE	**1,000.0**	**1,550.0**	**25.8**	**17.4**	**25,800**	**27,000**

SOURCE: Statistics Canada.

FLAXSEED

In 1988, 198 000 tonnes (7.8 million bushels) were harvested, down 51.2 per cent from 1987. The decrease in 1988 production was the result of a 44 per cent drop in yields and a 12.6 per cent decline in seeded area relative to 1987. Manitoba farmers contributed an estimated 47.8 per cent of Canadian production. The estimated total value of the 1988 crop was $54.3 million, a 2.7 per cent fall below 1987.

TABLE 17 Area, Yield and Production of Flaxseed, 1987, 1988

	Planted Hectares (000)		Yield per Hectare (kilograms)		Production (000 tonnes)	
Crop District	**1987**	**1988**	**1987**	**1988**	**1987**	**1988**
1	38.3	32.0	1 133	630	43.4	20.0
2	21.9	19.1	1 183	690	25.9	13.2
3	18.9	16.3	1 354	1 020	25.6	16.7
4	3.8	3.3	1 289	1 030	4.9	3.4
5	12.2	9.9	1 221	1 080	14.9	10.7
6	14.0	13.8	1 114	950	15.6	13.1
7	62.4	58.9	1 300	690	81.1	40.4
8	92.0	75.9	1 273	510	117.1	38.6
9	32.8	28.3	1 335	670	43.8	18.9
10	3.1	2.7	1 161	960	3.6	2.6
11	18.7	18.8	1 267	880	23.7	16.5
12	5.9	4.0	1 085	980	6.4	3.9
PROVINCE	**324.0**	**283.0**	**1 250**	**700**	**406.0**	**198.0**

	Planted Acres (000)		Yield per Acre (bushels)		Production (000 bushels)	
Crop District	**1987**	**1988**	**1987**	**1988**	**1987**	**1988**
1	94.7	79.0	18.0	10.0	1,709	789
2	54.1	47.3	18.9	11.0	1,020	519
3	46.7	40.2	21.6	16.4	1,008	658
4	9.5	8.2	20.2	16.5	192	136
5	30.2	24.4	19.4	17.2	586	420
6	34.7	34.0	17.7	15.1	615	515
7	154.3	145.5	20.7	10.9	3,193	1,591
8	226.4	188.7	20.4	8.1	4,627	1,522
9	81.0	69.9	21.3	10.7	1,725	745
10	7.7	6.6	18.3	15.6	141	103
11	46.1	46.4	20.2	14.0	932	650
12	14.6	9.8	17.3	15.7	253	154
PROVINCE	**800.0**	**700.0**	**20.0**	**11.1**	**16,000**	**7,800**

SOURCE: Statistics Canada.

RYE

Total Fall rye farm value of production was estimated at $5,254,000 in 1988. Harvested area was 40 500 hectares (100,000 acres) in 1988 compared to 26 300 hectares (65,000 acres) in 1987. The average yield was estimated at 1 190 kilograms per hectare (19.0 bushels per acre) in 1988 compared to 1 750 kilograms per hectare (27.7 bushels per acre) in 1987.

TABLE 18 Area, Yield and Production of Fall Rye, 1987, 1988

Crop District	Planted Hectares (000) 1987	1988	Yield per Hectare (kilograms) 1987	1988	Production (000 tonnes) 1987	1988
1	5.9	9.3	1 712	1 020	10.1	9.5
2	8.7	9.4	1 563	890	13.6	8.4
3	2.5	3.8	1 560	1 260	3.9	4.8
4	0.6	0.9	1 833	1 560	1.1	1.4
5	1.1	1.3	1 909	1 920	2.1	2.5
6	0.6	0.9	1 667	1 890	1.0	1.7
7	4.7	10.9	2 085	1 380	9.8	15.0
8	1.2	3.0	2 750	1 200	3.3	3.6
9	0.4	0.6	1 750	830	0.7	0.5
10	0.1	0.2	2 000	1 500	0.2	0.3
11	0.1	0.1	1 000	2 000	0.1	0.2
12	0.1	0.1	1 000	1 000	0.1	0.1
Province	**26.0**	**40.5**	**1 770**	**1 190**	**46.0**	**48.0**

Crop District	Acres (000) 1987	1988	Planted per Acre (bushels) 1987	1988	Yield Production (000 bushels) 1987	1988
1	14.5	22.9	27.5	16.3	399	373
2	21.4	23.2	25.0	14.3	535	333
3	6.1	9.3	25.5	20.1	156	187
4	1.5	2.3	28.5	24.3	43	56
5	2.7	3.2	31.0	30.8	84	98
6	1.5	2.3	26.9	28.6	40	66
7	11.5	26.9	33.6	22.0	386	591
8	4.2	7.5	26.9	20.9	113	157
9	1.0	1.5	27.7	11.9	28	18
10	0.3	0.4	27.7	26.5	8	11
11	0.2	0.3	27.5	21.7	6	7
12	0.1	0.2	28.0	21.5	3	4
PROVINCE	**65.0**	**100.0**	**27.7**	**19.0**	**1,800**	**1,900**

SOURCE: Statistics Canada.

MIXED GRAINS

An estimated 43 000 tonnes (2.1 million bushels) were produced in 1988. This level of production was 4.3 per cent higher than in 1987. Planted area in 1988 was 28 300 hectares (70,000 acres), 12.6 per cent less than the 1987 level. Mixed grains total value of production in 1988 was $4.0 million, 19.2 per cent less than the 1987 value of $5.0 million.

SPECIALTY CROPS

The 1988 production year was characterized by severe drought in Manitoba, particularly in the main specialty crop production area in the south.

GRAIN CORN

Grain corn plantings in 1988 were estimated at 32 400 hectares (80,000 acres), up 60 per cent from the 1987 level of 20 200 hectares (50,000 acres). The estimated total production of 104 000 tonnes (4.1 million bushels) was down 5 per cent from the 1987 level. The average yield of grain corn was estimated at 3 218 kilograms per hectare (104 bushels per acre), down 40 per cent from 1987. The total value of production in 1988 was estimated at $11.1 million, 6.0 per cent less than 1987.

SUNFLOWERSEED

The 1988 sunflower plantings were estimated at 34 413 hectares (85,000 acres), up 21 per cent from 1987. The average yield was estimated at 1 239 kilograms per hectare (1,106 pounds per acre). The area in Manitoba made up about 88 per cent of the total sunflower area in Canada. The value of sunflower production was estimated at $8.1 million in 1988, compared to $8.6 million in 1987.

FIELD PEAS

The area in field peas in 1988 was estimated at 72 875 hectares (180,000 acres), the same as in 1987. The average yield was estimated at 1 080 kilograms per hectare (16.1 bushels per acre), only 55 per cent of the 1987 yield. The total production in the province of 78 900 tonnes (86,987 tons) was down from 144 200 tonnes (158,980 tons) in 1987, and represented 22 per cent of the total pea production in western Canada. The value of the Manitoba crop was estimated at $17.0 million in 1988, 38.2 per cent larger than in 1987.

BUCKWHEAT

Approximately 20 240 hectares (50,000 acres) of buckwheat were planted in Manitoba in 1988, an increase of 25 per cent over 1987. The average yield was estimated at 620 kilograms per hectare (11.4 bushels per acre), compared to 1 253 kilograms per hectare (23.3 bushels per acre) in 1987. The total production was 12 400 tonnes (13,671 tons) in 1988, down from 20 200 tonnes (22,270 tons) in 1987. This represented 40 per cent of the total Canadian crop in 1988, compared to 46 per cent in 1987. The total value of the Manitoba buckwheat crop in 1988 was estimated at $3.1 million, 24.0 per cent more than its value in 1987.

MUSTARD

The area seeded to mustards in 1988 was about 33 per cent greater at 8 100 hectares (20,000 acres) compared to 1987. Most of this area was in yellow mustard. Yields were estimated to average about 840 kilograms per hectare (750 pounds per acre), down from 1 269 kilograms per hectare (1,133 pounds per acre) in 1987. The value to producers of the 1988 mustard crop was about $1.8 million, compared to about $2.0 million in 1987.

LENTILS

About 10 121 hectares (25,000 acres) were seeded to lentils in 1988, a decrease of about 50 per cent from 1987. Of this area only about 7 287 hectares (18,000 acres) were harvested due to the drought. The average yield was about 600 kilograms per hectare (533 pounds per acre) on the harvested area. This compared to 1 530 kilograms per hectare (1,367 pounds per acre) in 1987. The total production was only about 4 352 tonnes (4,798 tons) compared to 37 200 tonnes (41,013 tons) in 1987. This represented about 7 per cent of the Canadian production in 1988. The value of the Manitoba production was about $1.9 million, compared with its 1987 value of $1.7 million.

CANARY SEED

The area on which canary seed was produced in 1988 was about 10 100 hectares (25,000 acres) in Manitoba. This was about the same as in 1987. The total production was about 7 700 tonnes (8,489 tons) in 1988 compared to 13 400 tonnes (14,773 tons) in 1987. This reflected a yield of 760 kilograms per hectare (680 pounds per acre) compared to 1 322 kilograms per hectare (1,180 pounds per acre). The value of the crop to Manitoba producers was about $1.4 million in 1988, compared to $3.0 million in 1987.

FABABEANS

In 1988, about 4 900 hectares (12,000 acres) of fababeans were seeded in Manitoba, down 20 per cent from the seeded area in 1987. The area which was harvested was reduced due to loss from the drought. The harvested area produced an average yield of about 1 008 kilograms per hectare (900 pounds per acre). The total crop was valued at about $0.76 million.

FIELD BEANS

In 1988, approximately 8 900 hectares (22,000 acres) of field beans were planted in Manitoba. About 6 400 hectares (15,800 acres) were in white navy beans, with most of the remaining area in pinto beans and smaller areas in dark red kidney or black beans.

The yield of beans was greatly reduced by drought in a large portion of the main bean producing area. The average yield of white navy beans was about 896 kilograms per hectare (800 pounds per acre), producing a total of 5 734 tonnes (6,321 tons). The average price paid for Manitoba navy beans was 30.9 cents per kilogram (14 cents per pound), giving a total crop value for the year of $2,464,000.

Pinto beans were produced on about 1 820 hectares (4,500 acres) in 1988, with an average yield similar to navy beans of about 896 kilograms per hectare (800 pounds per acre). Average prices for pintos were about 30.9 cents per kilogram (14.0 cents per pound) in 1988. This gave a total pinto bean crop of 1 630 tonnes (1,796 tons), with a value of $504,000.

The remainder of the bean area in 1988 (about 690 hectares or 1,700 acres) produced dark red kidney and black beans. Yields of these beans suffered more from the drought, and were lower at about 560 kilograms per hectare (500 pounds per acre) for kidneys and 525 kilograms per hectare (470 pounds per acre) for blacks. The total production of dark red kidneys and blacks was about 375 tonnes (413 tons). Average prices for these beans were 75.0 cents per kilogram (34.0 cents per pound) for kidneys and blacks, giving a total value of $281,137.

The total farm gate value of all beans in Manitoba in 1988 was therefore estimated to be $3,249,137, from a total production of 7 739 tonnes (8,532 tons).

SUGAR BEETS

The sugar beet harvested area was 9 163 hectares (22,574 acres) in 1988, down 13 per cent from 1987. The average yield was 24.88 tonnes per hectare (11.10 tons per acre). Total production was 227 326 tonnes (250,581 tons) and valued at an estimated $9,548,000. Total 1987 production was 424 048 tonnes (467,428 tons) and was valued at $17,785,000. These values include payments under the stabilization [illegible]n.

CORN FOR SILAGE

Silage corn area in 1988 totalled 10 100 hectares (25,000 acres), the same as in 1987. Total production decreased to 145 000 tonnes (160,000 tons) in 1988 from 209 000 tonnes (230,000 tons) in 1987. The average yield was estimated at 14 400 kilograms per hectare (6.40 tons per acre), compared to 20 700 kilograms per hectare (9.20 tons per acre) in 1987. Silage corn was valued at $2.02 million, 35.6 per cent less than its value in 1987.

TAME HAY AND PASTURE

The area under tame hay and pasture was estimated at 647 000 hectares (1,600,000 acres). Tame hay production was valued at $136,300,000 based on the average price of $79.00 per tonne ($72.00 per ton). Estimates on the production of wild hay and other crops such as wheat and millet cut for hay are not available. The area in improved pasture was estimated at 283 000 hectares (700,000 acres) in 1988.

TABLE 19 Area, Yield and Production of Tame Hay, 1987, 1988

Crop District	Harvested Hectares (000) 1987	Harvested Hectares (000) 1988	Yield per Hectare (tonnes) 1987	Yield per Hectare (tonnes) 1988	Production (000 tonnes) 1987	Production (000 tonnes) 1988
1	37.9	40.1	3.14	1.44	119.1	58
2	60.4	60.7	4.10	2.06	247.5	125
3	44.9	47.8	4.84	2.49	217.5	119
4	30.1	30.6	3.91	2.85	117.8	87
5	27.9	28.8	4.20	4.17	117.1	120
6	82.6	82.9	4.11	3.44	339.2	285
7	67.4	67.0	5.55	3.21	374.4	215
8	33.8	35.2	4.61	1.47	155.9	52
9	52.1	56.2	6.79	3.01	353.7	169
10	33.6	37.4	5.16	3.76	173.5	141
11	37.5	37.9	5.50	2.64	206.4	100
12	118.8	122.4	4.05	2.07	480.9	253
PROVINCE	**627.0**	**647.0**	**4.63**	**2.66**	**2 903.0**	**1 724**

Crop District	Harvested Acres (000) 1987	Harvested Acres (000) 1988	Yield per Acre (tons) 1987	Yield per Acre (tons) 1988	Production (000 tons) 1987	Production (000 tons) 1988
1	93.6	99.0	1.40	0.64	131	64
2	149.3	150.1	1.83	0.92	273	138
3	110.9	118.1	2.16	1.11	240	131
4	74.5	75.5	1.74	1.27	130	96
5	68.9	71.2	1.87	1.86	129	133
6	204.2	204.9	1.83	1.54	374	315
7	166.5	165.6	2.48	1.43	413	237
8	84.2	88.3	2.04	0.64	172	57
9	128.8	138.9	3.03	1.34	390	186
10	83.0	92.3	2.30	1.68	191	155
11	92.6	93.6	2.46	1.18	228	110
12	293.5	302.5	1.81	0.92	530	279
PROVINCE	**1,550.0**	**1,600.0**	**2.06**	**1.19**	**3,200**	**1,900**

SOURCE: Statistics Canada.

TABLE 20 Area of Pasture, 1987, 1988

Crop District	Hectares (000) 1987	Hectares (000) 1988	Acres (000) 1987	Acres (000) 1988
1	22.2	23.5	54.9	58.0
2	31.1	28.9	76.8	71.3
3	30.6	27.2	75.7	67.3
4	21.4	20.2	52.9	50.0
5	15.3	21.3	37.9	52.6
6	39.1	36.2	96.7	89.5
7	33.1	34.4	81.8	84.9
8	16.6	16.8	41.5	42.2
9	13.1	12.9	32.4	32.0
10	7.7	7.7	19.0	19.0
11	14.3	15.5	35.3	38.4
12	38.5	38.4	95.1	94.8
Province	**283.0**	**283.0**	**700.0**	**700.0**

SOURCE: Statistics Canada.

POTATOES

The area planted to potatoes in Manitoba in 1988 was estimated at 17 806 hectares (44,000 acres) with the area harvested set at 16 997 hectares (42,000 acres). The expected production in 1988, estimated at 333 333 tonnes (367,500 tons) results from an expected per harvested hectare (acre) yield of 19.6 tonnes (8.75 tons).

The production in 1988 will be 21.8 per cent less than 1987, resulting from the combination of a 6.7 per cent decline in harvested area and a 16.2 per cent reduction in yield compared to 1987.

The value of potato production in 1988, based on harvested production, is placed at $51,150,000, 2.5 per cent higher than the value in 1987.

VEGETABLES

In 1988, vegetable producers contributed $8,855,500 to the value of agricultural production in Manitoba. This value was 20.6 per cent below 1987.

This contribution resulted from the cultivation of 1 346.8 hectares (3,328 acres) for an estimated overall production of 17 800 tonnes (19,600 tons) in 1988. By comparison, 1 700 hectares (3,900 acres) were cultivated in 1987 to produce 23 600 tonnes (26,000 tons).

TABLE 21 1988 Fresh Vegetable Production and Farm Value, Manitoba

	Planted Area (hectares)	Harvested Area (hectares)	Average Yield (kg/ha)	Total Production (tonnes)	Average Price ($/kg)	Total Value ($000)
Asparagus	1 32.4	32.4	1 009	32.7	2.23	72.7
Beets	8.1	8.1	21 297	172.5	0.51	87.4
Cabbage	125.5	125.5	20 176	2 532.1	0.35	892.8
Carrots	129.5	129.5	40 352	5 225.6	0.40	2,073.6
Cole Crops (excl. cabbage)	216.5	216.5	—	—	0.90	1,247.9
Celery	30.4	30.4	35 869	1 090.4	0.44	480.0
Corn, Sweet	242.8	194.2	4 708	914.3	0.40	362.9
Cucumbers	34.4	34.4	16 814	578.4	0.57	331.5
Lettuce	27.1	27.1	6 620	179.4	0.66	118.7
Onions	192.2	192.2	17 710	3 403.9	0.42	1,426.0
Parsnips	34.4	34.4	15 737	541.4	1.01	549.0
Peppers	10.1	10.1	15 581	157.4	0.71	111.2
Radish	25.9	16.2	4 741	76.8	0.66	50.8
Squash	14.2	14.2	8 327	118.2	0.37	44.2
Tomatoes	6.1	6.1	15 693	95.7	0.77	73.5
Rutabagas	60.7	60.7	17 340	1 052.5	0.40	417.7
Peas, Sweet	66.4	40.5	538	21.8	2.20	48.0
Processing	32.4	32.4	—	—	—	280.0
Beans, Snap	37.6	34.4	1 651	56.8	1.10	62.6
Other Crops	20.2	20.2	—	—	—	125.0
TOTAL	**1 346.8**	**1 259.4**	—	—	—	**8,855.5**

	Planted Area (acres)	Harvested Area (acres)	Average Yield (lb/acre)	Total Production (000 lbs)	Average Price ($/lb)	Total Value ($000)
Asparagus	80	80	900	72	1.01	72.7
Beets	20	20	19,000	380	0.23	87.4
Cabbage	310	310	18,000	5,580	0.16	892.8
Carrots	320	320	36,000	11,520	0.18	2,073.6
Cole Crops (excl. cabbage)	535	535	—	3,043.6	0.41	1,247.9
Celery	75	75	32,000	2,400.0	0.20	480.0
Corn, Sweet	600	480	4,200	2,016.0	0.18	362.9
Cucumbers	85	85	15,000	1,275.0	0.26	331.5
Lettuce	67	67	5,906	395.7	0.30	118.7
Onions	475	475	15,800	7,505.0	0.19	1,426.0
Parsnips	85	85	14,040	1,193.4	0.46	549.0
Peppers	25	25	13,900	347.5	0.32	111.2
Radish	64	40	4,230	169.2	0.30	50.8
Squash	35	35	7,429	260.0	0.17	44.2
Tomatoes	15	15	14,000	210.0	0.35	73.5
Rutabagas	150	150	15,470	2,320.5	0.18	417.7
Peas, Sweet	164	100	480	48.0	1.00	48.0
Processing	80	80	—	—	—	280.0
Beans, Snap	93	85	1,473	125.2	0.50	62.6
Other Crops	50	50	—	320.0	—	125.0
TOTAL	**3,328**	**3,112**	**—**	**—**	**—**	**8,855.5**

SOURCE: Manitoba Agriculture.

ORNAMENTAL CROPS

Nursery Stock. Most field stock wintered well with some damage to herbaceous perennials in areas where snow cover was inadequate.

Spring retail sales were reported slow in most areas due to hot and dry conditions at the end of May and throughout June. Over the entire sales season, sales evened out and resulted in an increase of approximately 5 per cent over 1987.

Growers without irrigation had difficulty getting new plantings established.

Fall harvest conditions were very good with most material being dug well before snowfall.

The value of residential landscape contracting was ahead of 1987 for most firms. Prices were the same if not lower than the previous two years. The hot, dry summer conditions will be expected to be costly for many contractors in terms of the guarantees and replacements in 1989.

Commercial contracts were lower than in 1987.

Value of production - $5,250,000.

Nursery Sod. The main production areas reported good winter survival for the 1988 crop. Unfortunately the hot, dry conditions limited the harvesting as summer progressed. Demand for sod was steady but prices did not increase much over 1987.

Average price: $0.50/m^2 in field and $0.85-1.00/m^2 delivered to Winnipeg.

Some growers were as low as $0.35-0.40/m^2 in field. Landscape contractors had difficulty maintaining new planted sod.

One established producer is planning to establish an irrigation system to cover newly seeded acreage and to provide irrigation to areas ready for harvest.

High winds and hot, dry conditions required some producers to re-seed their new fields on two occasions. Even with irrigation it was almost impossible to get new plantings established in June and July. Estimated harvest was 1 012 hectares (2,500 acres).

Value of production - $5,000,000.

TABLE 22 Value of Production of Floriculture & Nursery

Total Estimated Value for 1988 Production:	
Potatoes	$51,150,000
Commercial Vegetables (Fresh)	8,855,500
Fruits	3,400,000
Environmentally Controlled Production (Greenhouse and Mushrooms)	17,900,000
Nursery Products and Sod	10,250,000
TOTAL	**$91,555,500**

SOURCE: Manitoba Agriculture.

Fruit

Fruit crop industry grew by approximately 4 per cent in 1988. The total area of fruit crops in Manitoba is 400 hectares (988 acres). The majority is strawberries at 315 hectares (778 acres), the balance is raspberries at 71 hectares (170 acres), apples and Saskatoons 14 hectares (35 acres).

The area planted to strawberries declined approximately 5 per cent over 1987. There was a corresponding decline in new plantings to 60 hectares (150 acres). This general reduction in strawberry U-pick is a reflection of market saturation in some locations plus static pricing and consecutive declining yields for some growers. Growers close to urban centres continue to receive good U-pick customer support. Drought conditions throughout the province had a significant effect on yield and berry size. Yield reductions were as high as 80 per cent in the southwest corner on light soils and 10-20 per cent on the heavier soils in central Manitoba. Picking dates as early as two weeks ahead of normal brought on by very warm spring conditions caught many growers and customers off guard. Limited water supplies in dugouts and high wind levels also reduced the acreage of new planting establishment for some farms. Similarly high losses were recorded in new Saskatoon plantings, apple orchards and raspberry plantings. A higher than normal insect damage was noted and was directly related to abnormal dry, hot weather patterns.

Prices have remained stable at $1.76-2.20/kg ($0.80-1.10/lb) over the past five years despite accumulated inflation costs reaching as high as 27 per cent.

Raspberry acres expanded approximately 15 per cent down 10 per cent from the previous year. U-pick demand is strong close to urban centres and weak in distant rural settings. Grower prices for U-pick were $1.35-2.75/kg ($0.61- 1.25/lb). Demand for fresh sales continues to be high at $2.00-2.75/kg ($0.90-1.25/lb).

Interest in juice for processing continues to be strong and is supported by good test market results. Acres established several years ago for this purpose will be in production in 1989 and move the processing raspberry to a semi-commercial phase.

Generally the food industry is shifting from a U-pick base strawberry industry to other fruit crops like U-pick Saskatoons, apples, raspberries and currants. Opportunities also exist for the small-scale cottage processing industry to include juice, yogurt, gourmet ice-cream, jams, jellies and fruit leathers.

Greenhouse Production

Greenhouse gross sales increased approximately 8 per cent over the previous year. Housing starts were slightly down from 1987 starts. However, planting material for these new developments continues at a strong pace, 15-20 per cent over the previous year. A carryover of sales effect once the housing starts level off is expected to continue for the next three to four years for greenhouse and garden centre related plant products.

The impact of the drought and a slower rural economy affected retail sales of greenhouses in rural locations and to some extent in Winnipeg. Wholesale greenhouse producers were less affected than greenhouse retailers in total sales volume. Unusual early spring sales helped offset consumer reluctance to make plant purchases in mid-June (when drought concerns peaked). Manitoba vegetable and seed house sales dropped approximately 25 per cent over the previous years reflecting buyer shifts in purchasing other than by direct mail, plus the slow down in rural economy. Traditional florists market continues to be shifted to the mass market retailer. Wholesale prices for some greenhouse products (bedding plants $8.10/flat) lagged behind the rest of Canada. Retail prices also continued to lag behind inflation. Less efficient based greenhouses are operating close to their costs.

New product demands has created the opportunity for some specialty markets. The consumer demand away from traditional flowers such as mums to a wider range of exotic flowers should continue throughout 1989-90 (Alstroemeria, freeshia, gerba and cut lilies and roses). Continued strong consumer buying of floricultural products and gardening products should provide expansion gardening opportunities in Manitoba.

Mushrooms. Manitoba's mushroom industry expanded approximately 3 per cent in 1988. Manitoba's weekly mushroom production remained relatively static at 49 090 kilograms (108,000 pounds) per week. Drought effects on the quality and the availability of mushroom compost components affected production at some operations resulting in weekly yield totals to drop to 47 727 kilograms (105,000 pounds) per week. Total annual production for Manitoba was static at 2.5 million kilograms (5.6 million pounds) with exports accounting for 363 636 kilograms (800,000 pounds).

Manitoba's share of the prairie mushroom production has remained fairly static at 47 per cent. Per capita consumption is estimated to have increased 5 per cent. This is partially attributed to better packaging and marketing, consumer health trends and the general population willing to try more produce products.

Prices have remained at $7.50 for 2.2 kilograms (5 pounds) for the button mushrooms and exotic mushrooms are somewhat higher at $7.15/kg ($3.25/lb). Overproduction as a result of building expansion in Ontario during the last five years has depressed the prices in Ontario but has not affected the Winnipeg market in 1988.

Market opportunities exist for small scale production of exotic mushrooms which are presently not being serviced by larger suppliers. The demand has levelled off for these mushrooms making it not attractive for large scale production. Some opportunities will exist for shipment into the norther U.S. states once tariffs are reduced. Presently the tariffs are two and a half times higher for export to the U.S. versus imports from the U.S. Northern U.S. markets are presently being serviced from Chicago.

Controlled Environment

Mushroom and Greenhouse Industry - $17.9 million.
Fruit Crop Industry - $3.4 million.

SEED PRODUCTION

Forage Seeds: Total production of all forage seeds, including foreign and private varieties increased from 8 860 000 kilograms (19,515,000 pounds) in 1987 to 11 150 000 kilograms (24,579,000 pounds) in 1988. The total farm gate value decreased slightly from $14,093,000 to $13,795,000 in 1988.

There was about a 20 per cent increase in the total area harvested in 1988 and this, coupled with generally favorable growing conditions resulted in a 25 per cent increase in production. In particular, alfalfa, Birdsfoot Trefoil, and sweet clover increased significantly from 1987 to 1988, while Timothy production declined significantly due to drought.

In view of increased production in Manitoba and Western Canada the farm gate price softened for all forage seed crops. Significant price decreases were experienced for bromegrass, Birdsfoot Trefoil, single-cut red clover, and sweet clover. In total, the farm gate value of all forage seed crops in 1988 was 98 per cent of the record high 1987 value.

The following table indicates the production and average farm gate price for a combination of certified and common seed.

TABLE 23 Production and Value of Forage Seeds, 1988

	Production		Price per		Farm
	kilograms (000)	pounds (000)	kilogram $	pound $	Value ($000)
Alfalfa	3 500	7,716	2.09	0.95	7,330
Birdsfoot Trefoil	600	1,322	2.54	1.15	1,520
Bromegrass	50	110	1.21	0.55	61
Crested Wheatgrass	45	99	1.32	0.60	59
Kentucky Bluegrass	20	44	2.31	1.05	46
Meadow Fescue	45	99	0.88	0.40	40
Red Clover (double cut)	40	88	1.21	0.55	48
Red Clover (single cut)	350	772	0.62	0.28	216
Sweet Clover	4 000	8,818	0.26	0.12	1,058
Timothy	2 500	5,511	1.37	0.62	3,417
TOTAL	11 150	24,579			13,795

SOURCE: Manitoba Agriculture.

Pedigreed Seed: Because of its importance in Manitoba agriculture, the area seeded to this type of crop production is given in detail. These figures are included in the estimates of total production of cereals, grasses and other crops. A portion of this seed is used in the province and part is exported. These are not included in the records of commercial marketings through elevators but are considered in the total value of crop production. In addition to the area detailed below, 7 087 hectares (17,512 acres) of unlicensed forage seed varieties were grown for export in 1988, compared to 5 949 hectares (14,701 acres) in 1987, 5 149 hectares (12,724 acres) in 1986 and 5 050 hectares (12,480 acres) in 1985.

TABLE 24A **Foundation, Registered and Certified Seed Production, Hectares**

Kind of Crop	1986	1987	1988
Wheat — Hard Red Spring	33 136	38 059	47 081
— Medium Red Spring	3 525	2 044	2 270
— Soft White Spring	720	59	40
— Durum	5 832	7 181	5 469
— Utility	1 137	—	—
— Winter	219	85	45
Oats	2 173	2 788	3 061
Barley — 2-Row	2 238	5 548	1 722
— 6-Row	17 612	17 507	13771
Rye — Fall	196	358	694
— Spring	93	132	107
Triticale	16	4	22
Flaxseed	15 617	13 003	9 443
Peas — Field	7 770	11 032	11275
Beans — Faba	320	777	1 418
— Soybeans	121	174	271
— Field	24	85	65
Buckwheat	461	395	227
Canola (Rapeseed) — Argentine type	2 620	2 321	3 098
— Polish type	148	132	144
Alfalfa	5 166	6 139	7 353
Bromegrass	81	63	265
Kentucky Bluegrass	16	142	164
Meadow Fescue	85	97	113
Sweet Clover — Yellow Blossom	107	307	583
Timothy	7 141	9 166	9 773
Red Clover — Single- and Double-cut	113	—	—
Birdsfoot Trefoil	1 097	1 374	2 220
Mustard (Yellow & Brown)	358	—	1
Radish	—	229	—
Lentils	781	1 532	809
Canary Grass	245	333	71
Miscellaneous Grass Crops	—	—	204
TOTAL	**109,168**	**121,063**	**121 782**

TABLE 24B **Foundation, Registered and Certified Seed Production, Acres**

Kind of Crop	1986	1987	1988
Wheat — Hard Red Spring	81,880	94,047	116,340
— Medium Red Spring	8,710	5,050	5,610
— Soft White Spring	1,780	145	100
— Durum	14,410	17,745	13,515
— Utility	2,810	—	—
— Winter	540	210	110
Oats	5,370	6,890	7,565
Barley — 2-Row	5,530	13,710	4,255
— 6-Row	43,520	43,260	34,030
Rye — Fall	485	885	1,715
— Spring	230	325	265
Triticale	40	10	55
Flaxseed	38,590	32,130	23,335
Peas — Field	19,200	27,260	27,862
Beans — Faba	790	1,920	3,505
— Soybeans	300	430	670
— Field	60	210	160
Buckwheat	1,140	975	560
Canola (Rapeseed) — Argentine type	6,475	5,735	7,655
— Polish type	365	325	355
Alfalfa	12,765	15,170	18,170
Bromegrass	200	155	655
Kentucky Bluegrass	40	350	405
Meadow Fescue	210	240	280
Sweet Clover — Yellow Blossom	265	758	1,440
Timothy	17,645	22,650	24,150
Red Clover — Single-cut	280	—	—
Birdsfoot Trefoil	2,710	3,395	5,485
Mustard (Yellow & Brown)	885	565	3
Radish	—	—	—
Lentils	1,930	3,785	2,000
Canary Grass	605	823	175
Miscellaneous Grass Crops	—	—	505
TOTAL	**269,760**	**299,153**	**300,930**

In addition to the above area, 6 925 hectares (17,115 acres) of forage seed varieties, not registered in Canada were grown for export in 1988.

TABLE 25 **Certified Potato Production**

	Number Growers	Hectares Inspected	Hectares Passed Inspection 1988	Production Graded Stock (tonnes)	1987
Russet Burbank	11	1 175	1 175	16 500	27 260
Norland	6	86	86	1 020	1 740
Norchip	4	82	82	980	1 450
Red Pontiac	4	50	50	650	1 010
Kennebec	1	4	4	50	100
Norgold Russet	0	0	0	0	70
Carlton	1	4	4	30	80
Shepody	4	93	93	1 030	2 370
Conestoga	2	19	19	240	250
Yukon Gold	4	39	39	430	590
Monona	2	24	24	340	120
Norking Russet	1	1	1	20	0
Sangre	1	1	1	10	0
All Varieties		1 578	1 578	21 300	35 040

	Number Growers	Acres Inspected	Acres Passed Inspection 1988	Production Graded Stock (cwt)	1987
Russet Burbank	11	2,900	2,900	363,830	601,080
Norland	6	210	210	22,490	38,370
Norchip	4	200	200	21,610	31,970
Red Pontiac	4	120	120	14,330	22,270
Kennebec	1	10	10	1,100	2,210
Norgold Russet	0	0	0	0	1,540
Carlton	1	10	10	660	1,760
Shepody	4	230	230	22,710	52,260
Conestoga	2	50	50	5,290	5,510
Yukon Gold	4	100	100	9,480	13,010
Monona	2	60	60	7,500	2,650
Norking Russet	1	2	2	440	0
Sangre	1	2	2	220	0
All Varieties		3,894	3,894	469,660	772,630

SOURCE: Agriculture Canada.

MARKETING OF MAJOR CROPS

TABLE 26 Farm Supply and Disposition of Major Crops, Manitoba, 1983-84 to 1987-88

1983-84	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
SUPPLY							
Opening Stocks - Aug 1	110	4	110	375	25	45	10
Production	3 410	144	401	1 589	163	297	397
TOTAL SUPPLY	3 520	148	511	1 964	188	342	407
DISPOSITION							
Marketings	3 029	123	79	1 232	163	285	304
Seed Requirements	170	10	23	64	7	19	4
Feed, Waste & Dockage	251	10	349	598	13	33	97
Carryover, July 31	70	5	60	70	5	5	2
TOTAL DISPOSITION	3 520	148	511	1 964	188	342	407
				thousand bushels			
SUPPLY							
Opening Stocks - Aug 1	4,042	147	7,132	17,224	984	1,772	440
Production	125,297	5,291	26,002	72,983	6,417	11,692	17,505
TOTAL SUPPLY	129,339	5,438	33,134	90,207	7,401	13,464	17,945
DISPOSITION							
Marketings	111,298	4,520	5,123	56,586	6,417	11,220	13,404
Seed Requirements	6,246	367	1,491	2,940	276	748	176
Feed, Waste & Dockage	9,223	367	22,630	27,466	512	1,299	4,277
Carryover, July 31	2,572	184	3,891	3,215	197	197	88
TOTAL DISPOSITION	129,339	5,438	33,134	90,207	7,401	13,464	17,945

TABLE 26 (cont'd)

1984-85	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
SUPPLY							
Opening Stocks - Aug 1	70	5	60	70	5	5	2
Production	3 742	191	432	1 938	196	439	544
TOTAL SUPPLY	3 812	196	492	2 008	201	444	546
DISPOSITION							
Marketings	3 266	145	80	1 327	137	365	474
Seed Requirements	185	11	20	66	7	19	3
Feed, Waste & Dockage	322	34	343	545	47	58	64
Carryover, July 31	40	5	50	70	10	3	5
TOTAL DISPOSITION	3 812	196	492	2 008	201	444	546
				thousand bushels			
SUPPLY							
Opening Stocks - Aug 1	2,572	184	3,891	3,215	197	197	88
Production	137,459	7,018	28,012	89,012	7,716	17,283	23,986
TOTAL SUPPLY	140,068	7,202	31,902	92,227	7,913	17,480	24,074
DISPOSITION							
Marketings	120,006	5,328	5,187	60,949	5,393	14,369	20,900
Seed Requirements	6,798	404	1,297	3,031	276	748	132
Feed, Waste & Dockage	11,832	1,249	22,241	25,032	1,850	2,283	2,822
Carryover, July 31	1,470	184	3,242	3,215	394	118	220
TOTAL DISPOSITION	140,068	7,202	31,902	92,227	7,913	17,480	24,074

1985-86	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
SUPPLY							
Opening Stocks - Aug 1	40	5	50	70	10	3	5
Production	5 226	327	494	2 526	167	559	635
TOTAL SUPPLY	5 266	332	544	2 596	177	562	640
DISPOSITION							
Marketings	4 836	277	101	1 582	86	453	537
Seed Requirements	189	15	18	56	3	18	3
Feed, Waste & Dockage	201	38	326	828	64	71	80
Carryover, July 31	40	2	100	130	25	20	20
TOTAL DISPOSITION	5 266	332	544	2 596	177	562	640
				thousand bushels			
SUPPLY							
Opening Stocks - Aug 1	1,470	184	3,242	3,215	394	118	220
Production	192,024	12,015	32,032	116,019	6,574	22,007	27,998
TOTAL SUPPLY	193,494	12,199	35,274	119,234	6,968	22,125	28,219
DISPOSITION							
Marketings	177,694	10,178	6,549	72,661	3,386	17,834	23,677
Seed Requirements	6,945	551	1,167	2,572	118	709	132
Feed, Waste & Dockage	7,386	1,396	25,029	38,030	2,520	2,795	3,527
Carryover, July 31	1,470	73	6,484	5,971	984	787	882
TOTAL DISPOSITION	193,494	12,199	39,229	119,234	6,968	22,125	28,219

BI.E 26 (cont'd)

86-87	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
PPLY							
ening Stocks - Aug 1	40	2	100	130	25	20	20
duction	4 477	373	463	1 851	61	572	578
TAL SUPPLY	4 517	375	563	1 981	86	592	598
SPOSITION							
rketings	3 455	285	85	1 010	39	447	526
ed Requirements	185	13	18	61	2	14	3
ed, Waste & Dockage	347	42	381	751	20	81	59
rryover, July 31	530	35	80	160	25	50	10
TAL DISPOSITION	4 518	375	563	1 981	86	592	598
				thousand bushels			
PPLY							
ening Stocks - Aug 1	1,470	73	6,484	5,971	984	787	882
oduction	164,540	13,706	30,022	85,016	2,402	22,518	25,485
TAL SUPPLY	166,009	13,779	36,506	90,987	3,386	23,306	26,367
SPOSITION							
rketings	126,951	10,472	5,512	46,389	1,535	17,597	23,192
ed Requirements	6,798	478	1,167	2,802	79	551	132
ed, Waste & Dockage	12,750	1,543	24,705	34,493	787	3,189	2,601
rryover, July 31	19,474	1,286	5,187	7,349	984	1,968	441
TAL DISPOSITION	166,009	13,779	36,506	90,987	3,386	23,306	26,367

87-88	All Wheat	Durum	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
				thousand tonnes			
PPLY							
ening Stocks - Aug 1	530	35	80	160	25	50	10
oduction	3 947	259	416	1 938	46	406	585
TAL SUPPLY	4 477	294	496	2 098	71	456	595
SPOSITION							
rketings	3 466	177	108	894	50	334	494
ed Requirements	184	11	20	52	4	12	5
ed, Waste & Dockage	567	91	299	842	13	50	77
rryover, July 31	260	15	70	310	5	60	20
TAL DISPOSITION	4 477	294	496	2 098	71	456	595
				thousand bushels			
PPLY							
ening Stocks - Aug 1	19,474	1,286	5,187	7,349	984	1,968	441
oduction	145,029	9,517	26,974	89,012	1,811	15,983	25,794
TAL SUPPLY	164,503	10,803	32,162	96,361	2,795	17,952	26,235
SPOSITION							
rketings	127,355	6,504	7,003	41,061	1,968	13,149	21,781
ed Requirements	6,761	404	1,297	2,388	157	472	220
ed, Waste & Dockage	20,834	3,344	19,388	38,673	512	1,968	3,395
rryover, July 31	9,553	551	4,539	14,238	197	2,362	882
TAL DISPOSITION	164,503	10,803	32,162	96,361	2,795	17,952	26,235

URCE: Statistics Canada.

TABLE 27 Stocks of Major Crops on Farms, Manitoba, July 31, 1984-1988

	All Wheat	Oats	Barley	Rye	Canola (Rapeseed)	Flaxseed
			thousand tonnes			
1984	70	60	70	5	2	5
1985	40	50	70	15	5	3
1986	40	100	130	25	20	20
1987	530	80	160	20	10	50
1988	260	70	310	5	20	60
			thousand bushels			
1984	2,572	3,891	3,215	197	88	197
1985	1,470	3,242	3,215	591	220	118
1986	1,470	6,484	5,971	984	882	787
1987	19,474	5,187	7,349	787	441	1,968
1988	9,553	4,539	14,238	197	882	2,362

SOURCE: Statistics Canada.

TABLE 28 Producer Marketings, Manitoba, Crop Year 1987/88

	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
				'000 tonnes				
1987								
Aug.	16.4	0.6	17.0	2.7	27.6	3.1	8.3	22.0
Sept.	298.3	11.4	309.7	6.7	43.7	2.0	49.2	64.1
Oct.	525.6	24.6	550.2	15.4	79.9	6.2	46.6	76.5
Nov.	401.9	9.6	411.5	13.1	140.3	2.3	24.7	45.7
Dec.	398.0	18.8	416.8	8.1	83.7	1.5	22.4	43.8
1988								
Jan.	160.8	10.1	170.9	5.5	41.7	1.3	17.4	42.9
Feb.	119.6	8.2	127.8	5.4	36.4	4.2	16.2	35.6
March	207.3	20.3	227.6	11.2	78.5	3.0	23.2	43.4
April	299.1	18.3	317.4	8.8	66.1	2.6	22.8	48.2
May	190.3	10.5	200.8	6.5	36.2	1.6	18.7	20.3
June	325.3	23.3	348.6	10.1	98.4	9.2	36.1	35.8
July	309.5	21.1	330.6	8.7	108.5	9.2	29.4	14.2
TOTAL	**3 252.2**	**176.8**	**3 429.0**	**102.2**	**840.9**	**46.2**	**315.0**	**492.8**

	Bread Wheat	Durum	All Wheat	Oats	Barley	All Rye	Flaxseed	Canola (Rapeseed)
				'000 bushels				
1987								
Aug.	603	22	625	175	1,268	122	327	970
Sept.	10,961	419	11,380	434	2,007	79	1,937	2,826
Oct.	19,313	904	20,217	999	3,670	244	1,835	3,373
Nov.	14,767	353	15,120	849	6,444	91	972	2,015
Dec.	14,624	691	15,315	525	3,844	59	882	1,931
1988								
Jan.	5,909	371	6,280	357	1,915	51	685	1,892
Feb.	4,395	301	4,696	350	1,672	165	638	1,570
March	7,617	746	8,363	726	3,606	118	913	1,914
April	10,991	672	11,663	571	3,036	102	898	2,125
May	6,992	386	7,378	421	1,663	63	736	895
June	11,953	856	12,809	655	4,520	362	1,421	1,578
July	11,373	775	12,148	564	4,983	362	1,157	626
TOTAL	**119,499**	**6,496**	**125,995**	**6,627**	**38,623**	**1,819**	**12,401**	**21,729**

TABLE 29 Marketings of Major Crops, Manitoba Crop Years 1983/84 to 1987/88

	All Wheat	Oats	Barley	Rye	Flaxseed	Canola (Rapeseed)
			thousand tonnes			
1983/84	3 029	79	1 232	157	285	304
1984/85	3 266	80	1 327	137	365	474
1985/86	4 836	101	1 582	86	453	537
1986/87	3 455	85	1 010	39	447	526
1987/88	3 429	102	841	46	315	493
			thousand bushels			
1983/84	111,298	5,123	56,586	6,181	11,220	13,404
1984/85	120,006	5,187	60,949	5,393	14,369	20,900
1985/86	177,694	6,549	72,661	3,386	17,834	23,677
1986/87	126,951	5,511	46,389	1,535	17,597	23,192
1987/88	125,995	6,627	38,623	1,819	12,401	21,729

SOURCE: Statistics Canada; Agriculture Canada (C.G.C.).

TABLE 30 Permit Holders, Quota Areas, Manitoba, 1983/84 to 1987/88

	Permit Book Holders	Quota Areas Hectares	Quota Areas Acres
		thousands	
1983/84	25,163	5 868	14,500
1984/85	24,907	5 939	14,676
1985/86	24,641	6 064	14,984
1986/87	23,904	5 956	14,718
1987/88	24,811	6 054	14,960

SOURCE: Agriculture Canada - Grain Elevators in Canada.

TABLE 31 Estimated Gradings of Wheat and Barley, 1986/87, 1987/88

	Bread Wheat (per cent) 1986/87	Bread Wheat (per cent) 1987/88		Durum Wheat (per cent) 1986/87	Durum Wheat (per cent) 1987/88
No. 1 C.W.R.S	21.7	10.9	No. 1 C.W. Amber Durum	-	-
No.2 C.W.R.S	30.3	40.9	No. 2 C.W. Amber Durum	1.0	-
No. 3 C.W.R.S	24.3	41.3	No. 3 C.W. Amber Durum	26.2	22.7
No. 1 & 2 Utility	2.5	1.3	No. 4 C.W. Amber Durum	56.7	66.4
Canada Prairie Spring	3.8	1.5	No. 5 C.W. Amber Durum	16.1	10.9
Canada Feed	15.9	3.5	**TOTAL ALL GRADES**	**100.0**	**100.0**
Others	1.5	0.6			
TOTAL ALL GRADES	**100.0**	**100.0**			

Barley Gradings, 1986/87, 1987/88

Grade	Percentage of Deliverable Quantities on Farms Crop Years 1986/87	1987/88
	%	
Special Select	4.5	3.1
Select	9.3	6.8
1 C.W.	78.8	82.1
2 C.W. and Lower	7.4	8.0
TOTAL ALL GRADES	**100.0**	**100.0**

SOURCE: Canadian Wheat Board - unpublished.

*Grading designations were changed for the 1986-87 crop year as follows:

Regular Pool Barley		Designated Barley	
1CW 6-Row 1CW 2-Row 2CW 6-Row 2CW 2-Row 1Feed	1CW	1CW 2-Row 2CW 2-Row	Special Select CW 2-Row
		1CW 6-Row 2CW 6-Row	Special Select CW 6-Row
		1Feed 2-Row	— Select CW 2-Row
2Feed 3Feed	2CW	1Feed 6-Row	— Select CW 6-Row

TABLE 32 Average Protein Content of Spring Wheat in Manitoba, 1987, 1988

Per cent Protein in Wheat No. 1 C.W.R.S.
(13.5% moisture content basis)

	1987		1988	
Crop District	**Mean**	**Range**	**Mean**	**Range**
1	14.1	11.0 - 17.3	15.1	12.0 - 17.2
2	13.9	10.5 - 16.4	15.0	11.8 - 18.5
3	12.8	9.1 - 16.2	14.4	11.1 - 16.9
4	13.7	10.7 - 16.6	14.0	10.8 - 17.0
5	13.2	11.2 - 15.5	13.5	11.5 - 15.9
6	13.3	8.9 - 16.0	14.2	11.1 - 16.3
7	13.6	10.0 - 16.5	15.0	10.7 - 18.7
8	14.2	11.0 - 16.7	15.1	11.8 - 18.0
9	13.3	10.2 - 17.4	14.6	10.8 - 16.8
10	13.5	10.8 - 15.1	-	-
11	13.7	10.2 - 16.5	14.1	10.2 - 16.5
12	12.8	9.7 - 15.4	14.4	11.3 - 18.2
PROVINCE	**13.5**	**8.9 - 17.4**	**14.8**	**10.2 - 18.7**

SOURCE: Agriculture Canada (C.G.C.), Grain Research Laboratory.

TABLE 33 **Canadian Wheat Board**
Monthly Average Cash Grain Prices,
Basis In-Store Lower St. Lawrence, 1987-1988

A. 1987/88 Wheat Crop Prices

- Dollars per Tonne at St.Lawrence -
- Wheat Board Quotations -

	1987					1988	Initial Payment
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	1987-88
1 C.W. Red Spring 13.5%	164.90	170.42	176.36	176.31	184.73	189.94	122.21
2 C.W. Red Spring 13.5%	159.30	164.82	170.76	170.71	179.13	184.34	115.21
3 C.W. Red Spring	149.30	154.82	160.76	160.71	169.13	174.34	100.21
No. 1 Canada Utility	145.30	150.82	156.76	156.71	165.13	170.34	99.21
No. 2 Canada Utility	137.30	142.82	148.76	148.71	157.13	162.34	87.21
1 C.W. Amber Durum	188.31	206.74	207.68	216.70	218.72	211.20	125.00
2 C.W. Amber Durum	183.31	201.74	202.68	211.70	213.72	206.20	122.00
3 C.W. Amber Durum	178.31	196.74	197.68	206.70	208.72	201.20	120.00

	1988						
	Feb.	March	April	May	June	July	Average
1 C.W. Red Spring 13.5%	191.03	177.45	180.85	188.94	240.64	251.16	191.12
2 C.W. Red Spring 13.5%	185.43	171.85	175.25	183.34	235.04	245.56	185.52
3 C.W. Red Spring	175.43	161.85	165.25	173.34	225.04	235.56	175.52
No. 1 Canada Utility	171.43	157.85	161.25	169.34	221.04	231.56	171.52
No. 2 Canada Utility	163.43	149.85	153.25	161.34	213.04	223.56	163.52
1 C.W. Amber Durum	211.74	189.00	196.52	215.88	291.33	306.80	221.69
2 C.W. Amber Durum	206.74	184.00	191.52	210.88	286.33	301.80	216.69
3 C.W. Amber Durum	201.74	179.00	186.52	205.88	281.33	296.80	211.69

B. 1987/88 Oat Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1987					1988	Initial Payment
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	1987-88
1 C.W.	66.44	74.74	87.01	98.02	101.70	105.90	120.00
2 C.W.	66.44	74.74	87.01	98.02	101.70	105.90	114.21
Ex. 1 Feed	66.44	74.74	87.01	98.02	101.70	105.90	
1 Feed	66.44	74.74	87.01	98.02	101.70	105.90	
2 Feed	62.22	70.20	82.25	89.75	97.29	98.67	
3 Feed	59.22	67.15	79.25	86.75	94.29	95.62	

	1988						
	Feb.	March	April	May	June	July	Average
1 C.W.	98.53	89.38	85.38	87.43	127.16	161.10	98.51
2 C.W.	98.53	89.38	85.38	87.43	127.16	161.10	98.51
Ex. 1 Feed	98.53	89.38	85.38	87.43	127.16	161.10	98.51
1 Feed	98.53	89.38	85.38	87.43	127.16	161.10	98.51
2 Feed	94.09	85.88	81.88	83.88	122.50	157.52	93.81
3 Feed	91.09	82.88	78.88	80.93	119.41	154.52	90.80

C. 1987/88 Barley Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1987					1988	Initial Payment
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	1987-88
Special Select 6-Row	210.00	210.00	210.00	21.00	210.00	210.00	105.00
Select 6-Row	207.50	207.50	207.50	207.50	207.50	207.50	100.00
Special Select CW 2-Row	216.00	216.00	216.00	216.00	216.00	216.00	115.00
Select 2-Row	213.50	213.50	213.50	213.50	213.50	213.50	110.00
1 CW	67.47	67.62	67.50	68.03	66.73	71.26	65.00
2 CW	66.47	66.62	66.50	67.03	65.73	70.26	62.00
CW Mixed Grains	56.92	57.62	57.50	58.04	56.73	61.26	—

	1988						
	Feb.	March	April	May	June	July	Average
Special Select 6-Row	210.00	210.00	210.00	210.00	252.09	309.40	221.66
Select 6-Row	210.00	210.00	210.00	210.00	249.59	306.90	219.16
Special Select CW 2-Row	210.00	210.00	210.00	210.00	258.09	315.40	227.66
Select 2-Row	210.00	210.00	210.00	210.00	255.59	312.90	225.16
1 CW	71.83	71.28	75.34	86.71	107.94	117.18	78.27
2 CW	70.83	70.28	74.34	85.71	106.94	116.18	77.27
CW Mixed Grains	61.83	61.24	65.19	76.71	97.72	107.18	68.19

D. 1987/88 Canola (Rapeseed) Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1987					1988
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 Canada	217.12	224.76	239.21	248.71	263.20	282.56
2 Canada	204.12	211.76	226.21	235.71	250.20	269.56

	1988						
	Feb.	March	April	May	June	July	Average
1 Canada	284.11	280.84	292.53	320.15	396.15	377.93	286.05
2 Canada	271.40	269.80	279.53	307.15	383.15	364.93	273.25

E. 1987/88 Flaxseed Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

	1987					1988
Grade	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.
1 Canada	193.56	205.75	216.72	221.45	226.02	237.53
2 Canada	191.56	203.75	214.72	219.45	224.02	235.53
3 Canada	158.56	170.75	181.72	186.45	191.02	202.53

	1988						
	Feb.	March	April	May	June	July	Average
1 Canada	230.11	224.82	236.61	258.01	322.25	391.05	246.93
2 Canada	228.11	222.82	234.61	256.01	320.25	389.05	244.93
3 Canada	195.11	189.82	201.66	223.87	287.25	356.05	212.01

F. 1987/88 Rye Crop Prices

- Dollars per Tonne at Thunder Bay -
- Winnipeg Commodity Exchange Cash Quotations -

Grade	1987 Aug.	Sept.	Oct.	Nov.	Dec.	1988 Jan.
1 Canada Western	91.69	102.97	109.35	104.65	97.67	103.53
2 Canada Western	89.69	100.97	107.25	102.65	95.67	101.53
3 Canada Western	62.34	73.35	79.35	74.65	67.67	73.53

	1988 Feb.	March	April	May	June	July	Average
1 Canada Western	108.68	104.08	105.31	121.46	164.20	159.97	114.61
2 Canada Western	106.68	102.08	103.31	119.37	161.01	157.97	112.50
3 Canada Western	78.68	74.08	73.66	91.46	134.20	129.97	84.56

TABLE 34A Grain Stored in Country Elevators at July 31, Manitoba

Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
	tonnes					
1974-75	171 100	84 000	159 500	27 900	24 900	20400
1975-76	220 300	75 000	77 200	75 600	46 600	34100
1976-77	225 400	43 300	225 400	37 500	9 700	48900
1977-78	480 900	75 700	129 700	106 800	29 200	37800
1978-79	497 400	58 600	96 900	84 900	70 600	32300
1979-80	327 900	7 800	45 800	130 600	97 500	38500
1980-81	266 200	14 900	218 300	54 500	61 500	21900
1981-82	231 700	14 700	94 600	35 300	40 200	25800
1982-83	420 400	15 800	138 900	86 900	24 900	52800
1983-84	374 000	9 500	57 600	20 800	4 300	43500
1984-85	82 400	14 800	115 300	20 400	43 900	46300
1985-86	375 300	26 700	130 000	34 900	44 700	21500
1986-87	627 600	14 900	64 600	60 400	16 000	17600
1987-88	265 400	13 500	118 400	40 600	19 100	25900

SOURCE: Canadian Grain Commission. Visible Grain Supplies and Disposition Crop Years 1974/1988.

TABLE 34B Grain Stored in Country Elevators at July 31, Manitoba

Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
	- million bushels -					
1974-75	6.3	5.4	7.3	1.1	1.1	0.80
1975-76	8.1	4.9	3.5	3.0	2.1	1.3
1976-77	8.3	2.8	10.4	1.5	0.43	1.9
1977-78	17.7	4.9	6.0	4.2	1.3	1.5
1978-79	18.3	3.8	4.4	3.3	3.1	1.3
1979-80	12.0	0.51	2.1	5.1	4.3	1.5
1980-81	9.8	1.0	10.0	2.1	2.7	0.86
1981-82	8.5	1.0	4.3	1.4	1.8	1.0
1982-83	15.4	1.0	6.4	3.4	1.1	2.1
1983-84	13.7	0.62	2.6	0.82	0.19	1.7
1984-85	3.0	1.0	5.3	0.8	1.9	1.8
1985-86	13.8	1.7	6.0	1.4	2.0	0.85
1986-87	23.1	1.0	3.0	2.4	0.71	0.69
1987-88	9.8	0.88	5.4	1.6	0.84	1.0

SOURCE: Agriculture Canada; Statistics Canada.

TABLE 35A Total Grain Supply on Farms by Crop Year, Manitoba

Crop Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
			- tonnes -			
Stocks on Farms, July 31, 1988	530 000	80 000	160 000	50 000	10 000	25 000
Production, 1987/88	3 947 000	416 000	1 938 000	406 000	585 000	46 000
Total Farm Supply						
1987-88	4 477 000	496 000	2 098 000	456 000	595 000	71 000
1986-87	4 518 000	563 000	1 981 000	614 000	598 000	86 000
1985-86	5 266 000	605 000	2 596 000	562 000	640 000	177 000
1984-85	3 812 000	507 000	2 008 000	444 000	546 000	201 000
1983-84	3 520 000	511 000	1 964 000	342 000	407 000	188 000
1982-83	3 971 000	584 000	2 573 000	447 000	413 000	228 000
1981-82	3 381 000	493 000	2 395 000	275 000	352 000	183 000
1980-81	2 232 000	324 000	1 699 000	287 000	386 000	95 000
1979-80	3 157 000	432 000	1 807 000	511 000	633 000	131 000
1978-79	3 320 000	817 000	2 286 000	356 000	585 000	112 000
1977-78	3 320 000	1 040 000	2 134 000	343 000	295 000	86 000
1976-77	2 885 000	1 033 000	1 568 000	170 000	152 000	76 000
1975-76	2 177 000	833 000	1 176 000	228 000	291 000	91 000

SOURCE: Statistics Canada; Agriculture Canada.

TABLE 35B Total Grain Supply on Farms by Crop Year, Manitoba

Year	All Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Rye
			- million bushels -			
Stocks on Farms, July 31, 1988	19.5	5.2	7.3	2.1	0.44	0.98
Production, 1987/88	145.0	27.0	89.0	15.9	25.8	1.8
Total Farm Supply						
1987-88	164.5	32.2	96.3	18.0	26.2	2.8
1986-87	166.0	36.5	91.0	24.2	26.4	3.4
1985-86	193.5	39.2	119.2	22.1	28.2	7.0
1984-85	140.1	32.9	92.2	17.5	24.1	7.9
1983-84	129.3	33.1	90.2	13.5	17.9	7.4
1982-83	145.9	37.9	118.2	17.6	18.2	9.0
1981-82	124.2	32.0	110.0	10.8	15.5	7.2
1980-81	82.0	21.0	78.0	11.3	17.0	3.7
1979-80	116.0	28.0	83.0	20.1	27.9	5.2
1978-79	122.0	53.0	105.0	14.0	25.8	4.4
1977-78	122.0	68.0	98.0	13.5	13.0	3.4
1976-77	106.0	67.0	72.0	6.7	6.7	3.0
1975-76	80.0	54.0	54.0	9.0	12.8	3.6

SOURCE: Statistics Canada; Agriculture Canada.

TABLE 36 GRAIN STORAGE CAPACITY IN MANITOBA, August 1, 1987 - 1988

Kind of Elevator	All Licensed Elevators			
	1987		1988	
	Number	Capacity (000 tonnes)	Number	Capacity (000 tonnes)
Terminal	3	197.1	3	197.1
Process Elevators	13	152.9	11	142.1
Primary	288	1 106.3	284	1 104.5
TOTAL - Licensed Elevators	**304**	**1 456.2**	**298**	**1 443.6**
		(000 bushels)		(000 bushels)
Terminal	3	7,038.4	3	7,038.4
Process Elevators	13	5,460.1	11	5,074.4
Primary	288	39,506.0	284	39,441.7
TOTAL - Licensed Elevators	**304**	**52,004.5**	**298**	**51,554.5**

SOURCE: Agriculture Canada.

LIVESTOCK PRODUCTION

CATTLE

Production Value

During the past year, the production value of Manitoba cattle increased by $46.6 million from $243.4 million in 1987 to $290.0 million in 1988. The estimated average value per animal increased from $640 to $734 while production increased from 380,300 head to 395,200 head. The sale of heavier- weight animals was the main reason for the higher value per head in 1988, despite relatively steady cattle prices.

Marketings

Excluding estimated sales to Alberta and Saskatchewan, net commercial marketings of Manitoba origin cattle and calves decreased by 17,860 head from 1987, to total 311,850 in the current year. Marketings of slaughter cattle decreased by 65,710 head whereas marketings of slaughter calves declined by 450 head. Recorded shipments of Manitoba origin feeder cattle to the U.S. and Ontario were 102,900 head, an increase of 8,500 head from a year earlier. Export sales of Manitoba slaughter cattle and calves to Ontario, Quebec and the U.S., increased from 39,780 head in 1987 to 78,990 in 1988. Estimated 1988 marketings of Manitoba feeder cattle and calves to Alberta and Saskatchewan were about 113,000 head.

TABLE 37 Slaughter Cattle Sold by Month: Manitoba Origin

Month	Slaughter Cattle	Slaughter Calves	TOTAL (excluding exports)
January	11,324	143	11,467
February	13,276	158	13,434
March	12,755	174	12,929
April	12,379	118	12,497
May	10,962	120	11,082
June	13,933	177	14,110
July	12,523	130	12,653
August	10,913	138	11,051
September	10,963	156	11,119
October	6,461	137	6,598
November	5,947	93	6,040
December	6,785	190	6,975
YEAR	**128,221**	**1,734**	**129,955**

SOURCE: Agriculture Canada.

Disposal Sales

Of the total 181,494 cattle and 1,774 calves slaughtered in Manitoba during 1988, more than 40 per cent came from Saskatchewan. Of the total cattle slaughtered, 83 per cent were sold directly to packing plants on a rail grade basis and 17 per cent were marketed through public stockyards and auction markets. Almost 29,900 cattle were marketed through the Manitoba Beef Commission. In addition to the 129,955 Manitoba-produced cattle and calves slaughtered in Canada, about 64,000 slaughter cattle and calves were exported to the United States.

Inventory

There were 1,075,000 head of cattle and calves on Manitoba farms as of July 1, 1988. This was an increase of 0.5 per cent from the 1987 level. Beef cows increased by 1,000 head over the year, while replacement heifers, slaughter heifers, steers and calves were unchanged, down by 1,000, unchanged, and up by 4,000 head respectively.

TABLE 38 Cattle Numbers on Manitoba Farms, June 3, 1986

Crop District	Bulls	Cows (milk)	Cows (beef)	Heifers Over 1 yr (milk)	Heifers Over 1 yr (beef) (slaughter/ replacement)	Steers Over 1 Year	Calves Under 1 Year	TOTAL
1	1,846	2,247	34,676	711	12,039	10,451	32,906	94,876
2	2,514	4,808	43,114	2,034	15,670	18,099	42,588	128,827
3	1,877	4,021	36,359	1,406	11,682	10,967	34,642	100,954
4	1,378	1,760	23,389	480	7,001	5,609	21,918	61,535
5	621	786	13,089	227	4,025	3,838	11,764	34,350
6	2,706	2,566	56,921	893	15,470	12,011	51,832	142,399
7	1,948	8,737	37,494	4,183	13,177	15,523	37,738	118,800
8	1,835	7,792	26,625	3,384	11,346	16,878	29,155	97,015
9	1,187	18,700	13,351	9,411	6,485	6,944	21,229	77,307
10	575	2,420	10,041	1,110	2,816	1,745	9,620	28,327
11	974	6,525	15,272	3,248	6,058	6,156	16,385	54,618
12	3,025	4,605	67,795	2,147	20,304	16,545	61,291	175,712
PROVINCE	**20,486**	**64,967**	**378,126**	**29,234**	**126,073**	**124,766**	**371,068**	**1,114,720**

SOURCE: Statistics Canada.

TABLE 39 Beef Carcasses Graded in Federally & Provincially Inspected Packing Plants

Grade:	1987 Number	%	1988 Number	%
A1	120,832	50.5	99,067	54.6
A2	42,190	17.6	33,374	18.4
A3	6,366	2.7	4,937	2.7
A4	1,019	0.4	875	0.5
B1	5,328	2.2	3,700	2.0
B2	1,428	0.6	1,210	0.7
B3	2,062	0.9	1,266	0.7
C1	2,658	1.1	1,434	0.8
C2	866	0.4	464	0.3
D1	12,651	5.3	6,252	3.4
D2	10,753	4.5	5,717	3.1
D3	12,443	5.2	6,135	3.4
D4	1,402	0.6	678	0.4
E	619	0.3	393	0.2
Graded	**220,617**	**92.2**	**165,502**	**91.2**
Ungraded	18,735	7.8	15,992	8.8
TOTAL	**239,352**	**100.0**	**181,494**	**100.0**

SOURCE: Agriculture Canada.

Replacement Cattle Marketed in Manitoba

In 1988, 336,800 feeder cattle marketings were recorded by Manitoba public stockyards and auction markets. This was an increase of 6 per cent from the previous year. Over 278,600 feeder cattle and calves were sold through Manitoba's nine major stockyards and auction markets, while 58,200 replacement cattle were marketed through the eight smaller markets in the province. More than 91,140 feeder cattle and calves were shipped to eastern markets in 1988, a decrease of 3 per cent from 1987. Manitoba exported 11,800 feeders to the United States in 1988, up from 130 in 1987. It is estimated that about 113,000 Manitoba-produced feeder cattle and calves were purchased by Alberta and Saskatchewan buyers in 1988. This number compares to an estimated 90,000 feeder cattle and calves moving west from Manitoba in 1987, 50,000 in 1986 and almost none in 1985 and previous years.

TABLE 40 Cattle Prices, Winnipeg Stockyards, 1988

	Cents per Kilogram Live	Dollars per 100 Pounds Live
SLAUGHTER CATTLE AND CALVES		
STEERS		
A1,A2 + 450 kg (+ 1,000 lb)	178.0	80.76
A1,A2 -450 kg (-1,000 lb)	177.9	80.70
A3,A4	151.2	68.57
B and C	148.5	67.37
HEIFERS		
A1,A2 + 400 kg (+ 850 lb)	170.9	77.53
A1,A2 -400 kg (-850 lb)	169.0	76.68
A3,A4	149.3	67.72
B and C	142.8	64.78
COWS		
D1,D2	122.2	55.45
D3	119.2	54.08
D4	105.6	47.91
BULLS	158.3	71.81
SLAUGHTER CATTLE AVERAGE	**137.1**	**62.21**
CALVES		
Good Veal	264.9	120.17
Good Butcher	221.9	100.67
Common All Weights	183.0	82.99
SLAUGHTER CALVES AVERAGE	**220.5**	**100.01**
FEEDERS		
GOOD STEERS		
+ 400 kg (+ 900 lb)	185.4	84.10
350-400 kg (800-900 lb)	196.6	89.17
300-350 kg (700-800 lb)	210.8	95.61
250-300 kg (600-700 lb)	224.6	101.88
Common and Medium + 250 kg (+ 600 lb)	164.6	74.68
GOOD STEER CALVES		
200-250 kg (500-600 lb)	239.6	108.69
150-200 kg (400-500 lb)	250.1	113.45
Under 150 kg (under 400 lb)	254.2	115.29
Common and Medium -250 kg (-600 lb)	183.3	83.15
GOOD HEIFERS		
+ 350 kg (+ 800 lb)	176.4	80.03
300-350 kg (700-800 lb)	188.6	85.53
250-300 kg (600-700 lb)	203.8	92.43
200-250 kg (500-600 lb)	220.8	100.16
Common and Medium + 200 kg (+ 500 lb)	164.5	74.63
GOOD HEIFER CALVES		
150-200 kg (400-500 lb)	230.8	104.70
100-150 kg (300-400 lb)	236.8	107.40
Under 100 kg (under 300 lb)	232.8	105.59
Common and Medium -200 kg (-500 lb)	174.9	79.34
FEEDER COWS	133.6	60.58
FEEDER CATTLE AVERAGE	**201.3**	**91.32**

SOURCE: Agriculture Canada.

Prices

The weighted average price for top grade steers in 1988 decreased by 2.5 per cent from 1987 while that of D1,2 cows remained the same. The weighted average price for the first nine months (Jan.-Sept.) in 1988 for good veal calves was 264.9 cents. This compares with the weighted average price in 1987 of 256.5 cents. The weighted average price for good feeder steers over 400 kilograms (900 pounds) in 1988, was up by 1.3 per cent compared to 1987.

TABLE 41A **Winnipeg Stockyards Prices**
- Selected Grades -

- cents per kilogram -

	A1,2 Steers			D1,2 Cows			Feeder Steers 350-400 kilograms			Good Veal Calves		
Month	**5 Yr.**	**1987**	**1988**	**5 Yr.**	**1987**	**1988**	**5 Yr.**	**1987**	**1988**	**5 Yr.**	**1987**	**1988**
January ..	168.7	174.4	170.7	101.5	113.1	125.6	166.7	179.9	199.3	230.1	227.4	286.3
February ..	166.4	171.4	176.9	109.8	116.9	124.1	168.5	181.8	208.3	222.7	228.3	283.5
March	167.3	172.4	177.9	115.0	119.6	130.1	165.9	182.5	203.6	237.1	232.1	275.7
April	172.1	179.1	186.8	114.5	118.5	130.0	171.4	186.6	205.5	241.4	247.0	272.4
May.....	176.5	196.3	190.7	116.6	123.1	132.4	171.1	195.5	200.1	246.5	255.8	283.8
June	170.8	190.1	181.9	119.1	128.6	121.7	170.1	193.5	186.7	241.4	268.5	267.0
July.....	167.0	180.3	167.2	117.3	130.0	124.2	167.0	191.1	184.9	241.5	274.3	249.6
August ...	165.9	182.5	168.5	116.2	131.5	124.6	168.3	196.4	188.9	335.2	279.4	249.0
September	167.5	181.8	174.9	110.2	125.0	122.2	171.1	209.6	196.1	229.7	277.0	240.1
October ..	169.4	178.0	167.2	105.3	117.0	115.4	170.6	202.1	191.1	218.8	265.7	-
November.	173.7	176.7	165.1	101.5	118.0	112.3	169.0	190.0	188.4	225.5	270.5	-
December.	174.4	173.1	167.8	104.2	124.2	112.4	172.3	196.2	187.4	231.3	270.4	-
YEAR	**170.1**	**182.5**	**178.0**	**110.2**	**122.1**	**122.2**	**170.4**	**193.9**	**196.5**	**234.8**	**256.5**	**264.9**

TABLE 41B **Winnipeg Stockyards Prices**
- Selected Grades -

- dollars per 100 pounds -

	A1,2 Steers			D1,2 Cows			Feeder Steers 800-900 pounds			Good Veal Calves		
Month	**5 Yr.**	**1987**	**1988**	**5 Yr.**	**1987**	**1988**	**5 Yr.**	**1987**	**1988**	**5 Yr.**	**1987**	**1988**
January ..	76.52	79.10	77.45	46.05	51.32	57.00	75.65	81.59	90.44	104.42	103.16	129.89
February ..	75.48	77.73	80.26	49.81	53.02	56.29	76.44	82.45	94.49	101.03	103.54	128.65
March	75.89	78.19	80.73	52.18	54.26	59.05	75.26	82.79	92.37	107.59	105.29	125.08
April	78.10	81.25	84.77	51.96	53.76	59.00	77.75	84.62	93.22	109.52	112.03	123.60
May.....	80.06	89.02	86.53	52.92	55.85	60.06	77.62	88.66	90.79	111.86	116.02	128.75
June	77.49	86.21	82.53	54.02	58.34	55.24	77.20	87.76	84.72	109.54	121.78	121.15
July.....	75.77	81.79	75.87	53.24	58.97	56.34	75.75	86.68	83.89	109.56	124.44	113.23
August ...	75.28	82.80	76.43	52.72	59.64	56.53	76.38	89.10	85.73	106.72	126.72	112.96
September	76.01	82.47	79.35	50.02	56.72	55.45	77.64	95.09	88.98	104.23	125.63	108.96
October ..	76.85	80.75	75.87	47.79	53.06	52.34	77.42	91.68	86.71	99.27	120.54	-
November.	78.80	80.15	74.91	46.04	53.50	50.95	76.66	86.18	85.50	102.31	122.71	-
December.	79.11	78.51	76.12	47.28	56.34	51.02	78.19	89.00	85.01	104.95	122.66	-
YEAR	**77.20**	**82.80**	**80.76**	**50.02**	**55.39**	**55.45**	**77.33**	**87.94**	**89.17**	**106.52**	**116.36**	**120.17**

SOURCE: Agriculture Canada.

HOGS

Production

In 1988, Manitoba farmers produced 2,165,500 hogs, an increase of 13.2 per cent from 1987. A decrease in the average value per head was partly offset by the improvement in production volume resulting in a $36 million decrease in total value of production below the 1987 value. Hogs produced in Manitoba were valued at an estimated $228 million in 1988.

Marketings

Manitoba producers marketed 157,400 more hogs for slaughter in Canada in 1988 than in 1987. Hog marketings in all months, other than March, exceeded corresponding levels in 1987. The largest monthly increase in marketings, 19.9 per cent, occurred in December, 1988. According to Statistics Canada, 117,500 hogs under 50 kilograms and 193,000 hogs, 50 kilograms and over, were exported in 1988, almost all to the United States.

TABLE 42 Slaughter Hog Marketings by Month (excluding exports)

Month	- Animals from Manitoba - 1986	1987	1988
January	121,671	134,616	141,527
February	118,693	130,239	131,820
March	147,937	168,889	159,815
April	125,793	124,692	145,236
May	120,002	125,839	132,103
June	144,168	142,765	162,861
July	110,956	118,233	137,621
August	112,806	115,471	134,802
September	144,010	154,789	179,026
October	116,830	131,191	145,251
November	122,768	141,331	145,152
December	169,668	152,046	182,265
YEAR	**1,555,302**	**1,640,101**	**1,797,479**

SOURCE: Agriculture Canada.

Inventory

The total number of hogs on Manitoba farms on July 1, 1988 was 1,250,000 head, an increase of 8.9 per cent from the same date in 1987. Market hogs totalled 1,116,700, an increase of 11.4 per cent or 92,200 head from 1987. Sow numbers on farms, at 125,000 head in 1988 were 7.3 per cent above the 1987 level.

TABLE 43 Hog Numbers on Farms, June 3, 1986

Crop District	Under 20 Kg (45 lb)	20 to 60 kg (45-130 lb)	Over 60 kg (130 lb)	Breeding Stock	Total
1	13,471	15,886	12,249	4,666	46,272
2	22,305	22,708	23,746	8,871	77,630
3	16,470	16,629	13,818	6,162	53,079
4	1,650	1,097	624	611	3,982
5	6,449	6,497	6,153	2,554	21,653
6	6,408	6,431	4,447	2,677	19,963
7	51,365	52,313	50,275	19,343	173,296
8	77,315	78,855	70,148	27,628	253,946
9	77,897	82,154	80,010	27,555	267,616
10	7,377	10,530	8,807	2,794	29,508
11	25,534	30,113	27,827	9,799	93,273
12	9,815	8,799	8,852	3,511	30,977
PROVINCE	**316,056**	**332,012**	**306,956**	**116,171**	**1,071,195**

SOURCE: Statistics Canada.

Quality

The general quality of Manitoba hogs increased in 1988 relative to 1987. The percentage of market hogs indexing 100 or better increased to 80.9 per cent from 77.2 per cent in 1987.

Prices

The onset of drought in spring, 1988 resulted in higher feed prices and caused a significant decline in hog prices in July. Relatively low prices continued for the rest of the year. The highest average price received for Index 100 hogs was 151.5 cents per kilogram ($68.72 per hundredweight) in June. The average annual price of Index 100 hogs in 1988 was 132.7 cents per kilogram ($60.19 per hundredweight), down 23.0 per cent from 1987 and 17.3 per cent below the five-year average (1983-1987).

TABLE 44A Manitoba Monthly Average Weighted Hog Prices, 1986 - 1988

	- cents per kilogram -					
	Index 100			Sows		
Month	**1986**	**1987**	**1988**	**1986**	**1987**	**1988**
January	149.7	168.0	135.3	90.7	106.4	78.8
February	153.3	170.9	142.3	96.2	109.7	91.1
March	143.6	157.7	134.7	91.6	107.5	82.0
April	139.5	160.5	132.9	88.6	105.3	84.3
May	152.8	184.6	143.9	93.2	131.0	89.1
June	171.8	199.7	151.5	103.2	114.1	84.6
July	203.5	203.3	138.2	126.6	133.9	66.9
August	217.7	200.2	132.9	143.2	127.9	70.4
September	217.5	184.9	127.6	155.6	123.2	73.2
October	199.9	166.4	120.5	136.9	110.5	71.9
November	204.4	139.9	117.7	137.8	87.6	64.0
December	190.5	140.9	118.1	127.6	109.5	62.6
YEAR	**178.8**	**172.3**	**132.7**	**116.8**	**116.9**	**76.9**

SOURCE: Agriculture Canada.

TABLE 44B Manitoba Monthly Average Weighted Hog Prices, 1986 - 1988

	- dollars per 100 pounds -					
	Index 100			Sows		
Month	**1986**	**1987**	**1988**	**1986**	**1987**	**1988**
January	67.91	76.20	61.36	41.14	48.26	35.74
February	69.55	77.52	64.54	43.64	49.76	41.30
March	65.16	71.53	61.09	41.55	48.76	37.20
April	63.28	72.80	60.27	40.19	47.76	38.24
May	69.31	83.73	65.26	42.28	59.42	40.42
June	77.93	90.58	68.71	46.81	51.76	38.37
July	92.31	92.21	62.68	57.43	60.74	30.35
August	98.75	90.81	60.27	64.96	58.02	31.93
September	98.66	83.87	57.87	70.58	55.88	33.20
October	90.68	75.48	54.65	62.10	50.12	32.61
November	92.72	63.46	53.38	62.51	39.74	29.03
December	86.41	63.91	53.56	57.88	49.67	28.40
YEAR	**81.10**	**78.16**	**60.19**	**52.98**	**53.03**	**34.88**

SOURCE: Agriculture Canada.

SHEEP AND LAMBS

Marketing

Balance sheet estimates indicated that 21,100 sheep and lambs were marketed in Manitoba in 1988, compared with 20,800 in 1987. Of these, 4,738 were slaughtered in provincial and federal institutions, compared with 4,116 in 1987, about 3,800 were marketed interprovincially (4,600 in 1987) and 9,300 were exported to the United States (9,400 were exported to the U.S. in 1987). Sales of sheep and lambs were valued at $2.152 million, 6.4 per cent lower than the revised sales value of $2.298 million in 1987. The recorded slaughterings of sheep and lambs of Manitoba origin rose 15.1 per cent above 1987.

TABLE 45 Recorded Sheep and Lamb Marketings from Manitoba

Month	1985	1986	1987	1988
January	751	416	295	225
February	606	298	260	185
March	867	561	306	337
April	654	353	346	638
May	587	457	277	370
June	1,140	635	397	315
July	1,005	382	290	342
August	1,156	376	357	373
September	1,629	427	425	560
October	1,374	435	330	385
November	831	350	358	478
December	1,031	563	475	530
YEAR	**11,631**	**5,253**	**4,116**	**4,738**

SOURCE: Agriculture Canada.

Prices

Prices in 1988 for all grades of animals averaged $1.75 per kilogram ($79.32 per hundredweight). The average price for A and B lambs, 36 kilograms (80 pounds) and over, was $1.55 per kilogram ($70.19 per hundredweight). The previous five-year average was $1.64 per kilogram ($74.48 per hundredweight).

Wool Production

The total farm value of shorn wool production in 1988 was estimated at $68,000, an increase of 39.0 per cent above the 1987 value of $49,000. The average price received by producers was approximately $1.90 per kilogram (86 cents per pound). Production was 35 800 kilograms (78,900 pounds), a decrease of 3.1 per cent below the 1987 production.

DAIRY

Farm sales of milk in 1988 were estimated at 311 111 kilolitres, an increase of 1.5 per cent from 1987. Cash receipts for all milk sold off the farm totalled $129,194,000, up 6.5 per cent from 1987. Supplementary payments decreased by 0.8 per cent below the 1987 level of $11,071,000.

The volume of milk sold for fluid purposes was 117 298 kilolitres in 1988, 0.7 per cent higher than in 1987. This represented 37.7 per cent of all sales in 1988, a decrease of 0.3 per cent below 1987. Fluid sales generated 50.9 per cent of total milk and cream cash receipts sold off the farm in 1988 compared to the 48.8 per cent contribution in 1987.

By comparison, the volume of milk and cream sold off the farm for industrial use amounted to 193 813 kilolitres in 1988, representing 62.3 per cent of total sales compared to the 1987 figure of 62.0 per cent. In 1988, off-farm sales for industrial use contributed $66.8 million to milk and cream receipts, (49.9 per cent) compared to 49.4 per cent contribution in 1987.

TABLE 46 Volume of Milk and Cream Sold Off Farm

	Sold for Fluid	Sold for Industrial Use		Total Volume of Sales
		Delivered as Milk	Delivered as Cream	
	kilolitres			
1984	109 197	156 778	31 338	297 313
1985	110 811	147 466	31 514	289 791
1986	114 028	147 843	29 446	291 317
1987	116 509	157 318	32 812	306 639
1988	117 298	161 945	31 868	311 111

SOURCE: Statistics Canada, Cat. No. 23-001.

TABLE 47 Cash Receipts from Milk and Cream Sold Off Farm

	Sold for Fluid Uses	Sold for Industrial Uses: Delivered As Milk	Sold for Industrial Uses: Delivered As Cream	Total Farm Sales	Supplementary Payments	Total Cash Receipts
	thousands of dollars					
1984	51,565	48,833	4,528	104,926	11,246	116,172
1985	54,817	42,894	4,659	102,370	10,935	113,305
1986	56,474	45,891	4,417	106,782	10,628	117,410
1987	56,477	48,775	4,994	110,246	11,071	121,317
1988	58,022	55,167	5,025	118,214	10,980	129,194

SOURCE: Statistics Canada, Cat. No. 23-001.

Creamery Butter Production

In 1988 butter production was 4 506 tonnes, an increase of 8.7 per cent over the 1987 value of 4 147 tonnes. The monthly average production was 375.5 tonnes in 1988 compared with 345.6 tonnes in 1987.

Cheddar Cheese Production

Cheddar cheese production in 1988 was 6 100 tonnes, down 3.8 per cent below the 1987 level of 6 339 tonnes. The ice-cream mix totalled 8 256 tonnes, slightly down from the 8 687 tonnes produced in 1987 and represents approximately one-half the actual ice-cream volume; two parts of ice-cream are made from one part of mix.

TABLE 48 Dairy Factory Production by Month, 1988

Month	Creamery Butter (tonnes)	Cheddar Cheese (tonnes)	Ice-Cream Mix (kilolitres)
January	375	533	558
February	391	515	531
March	435	551	610
April	414	544	466
May	395	527	865
June	333	523	1 109
July	297	447	1 037
August	345	474	740
September	406	448	666
October	374	473	617
November	392	466	489
December	349	599	568
YEAR	**4 506**	**6 100**	**8 256**

SOURCE: Statistics Canada.

Total Milk Supply

Total milk production in the 1988 dairy year (August 1, 1987 to July 31, 1988) was 308.45 million litres, up 3.5 per cent from the 1987 level of 297.93 million litres. The milk production was 290.66 million litres in 1986.

The 1988 (dairy year) producer price for class 1 milk was $49.47 per hectolitre, up $1.00 per hectolitre from the price received in 1987.

Milk Cows

The number of milk cows on Manitoba farms as of July 1, 1988 was 66,000 head, a 21.9 per cent decline from the 1981 Census. Dairy replacement heifers on farms totalled 29,200, a 9.6 per cent decline from 1981.

POULTRY

The value of poultry, egg and meat production was estimated at $122,550,000 in 1988. This was 9.5 per cent higher than the revised 1987 value of $111,932,000. A $2 million gain was registered by increased egg sales at higher prices. Value from turkey hatching eggs advanced $347,000 based on increased volume and price. Value for chicken meat production advanced $2.6 million based on higher values per bird with the exception of fowl. Both production and value of turkeys advanced resulting in a $1.4 million advance in turkey meat value. Goose production increased by 29 per cent and duck production increased dramatically after a low production year in 1987.

TABLE 49 SUMMARY OF POULTRY PRODUCTION

	- 1987* -			- 1988 -		
	Dozen (000)	Price (¢/doz)	Value ($000)	Dozen (000)	Price (¢/doz)	Value ($000)
EGGS						
Sold for consumption	51,787	81.7	42,310	52,238	88.8	46,387
Used on farms	424	81.7	346	434	88.8	385
Hatching (chicks)	2,356	251.0	5,913	2,350	263.0	6,180
	54,040		48,569	55,022		52,952
Hatching (turkeys)	285	700.0	1,995	324	723.0	2,342
TOTAL EGG VALUE			**50,564**			**55,294**
	Birds (000)	**Price ($ each)**	**Value ($000)**	**Birds (000)**	**Price ($ each)**	**Value ($000)**
MEAT						
Chicken:						
Broilers (under 1 kg)	1,307	.68	888	835	.97	809
Broilers (1-2 kg)	13,235	1.80	23,823	13,520	1.96	26,499
Roasters	2,073	3.39	7,027	1,882	3.88	7,302
Fowl	2,194	.22	482	1,968	.13	255
	18,809		32,220	18,205		34,865
Turkeys:						
Broilers	390	7.12	2,777	379	7.50	2,842
Hens	346	10.60	3,667	493	11.00	5,423
Heavies	541	16.55	8,953	506	16.72	8,460
	1,277		15,397	1,378		16,725
Geese	341	12.73	4,340	441	12.74	5,618
Ducks	93	5.00	465	299	4.75	1,420
TOTAL MEAT VALUE			**52,422**			**58,628**
Started Pullets	2,451	3.65	8,946	2,364	3.65	8,628
TOTAL POULTRY PRODUCTION			**111,932**			**112,550**

*Revised.

SOURCE: Statistics Canada, Cat. No. 23-203 and 23-003; Manitoba Agriculture.

In 1988, the average product price for ungraded delivered eggs was 88.8 cents per dozen, 8.7 per cent above the average price of 81.7 cents per dozen last year. The monthly average delivered prices for all grades for 1983-1988 are shown below.

TABLE 50 Egg Prices to Producers, Winnipeg, 1983 - 1988

Month	ALL GRADES - cents per dozen delivered, ungraded - 1983	1984	1985	1986	1987	1988
January	80.5	89.8	88.3	84.7	83.6	83.4
February	81.0	91.6	89.5	86.9	83.5	84.6
March	81.3	92.1	89.7	87.7	82.9	84.7
April	81.5	88.7	87.4	86.2	80.8	83.1
May	82.4	88.6	86.6	84.2	79.1	83.8
June	82.3	88.5	87.5	84.9	81.1	85.3
July	81.9	91.2	87.8	85.6	82.4	88.2
August	81.0	90.9	87.3	88.7	81.6	92.2
September	82.5	89.8	86.5	82.3	80.9	92.7
October	86.7	91.3	86.4	86.0	81.6	95.8
November	87.9	90.1	86.1	84.9	82.6	96.6
December	89.7	88.4	85.3	81.3	80.5	96.0
YEAR	**83.3**	**90.1**	**87.4**	**85.4**	**81.7**	**88.8**

SOURCE: Canadian Egg Marketing Agency.

The average number of laying hens per month at year end on Manitoba farms was 2,499,000 in 1988 and 2,542,000 in 1987. The average production per bird at year-end was at a rate of 273 eggs per bird per year in 1988 compared with 261 in 1987.

The egg quota allocation to Manitoba by the Canadian Egg Marketing Agency was 2,324,778 layers in 1988. The monthly inventory of layers compared with the allocation is shown below.

TABLE 51 Manitoba Egg Quota Allocation and Inventory, 1988

Month	LAYER NUMBERS Allocation	Inventory
January	2,324,778	2,224,470
February	2,324,778	2,230,709
March	2,324,778	2,190,239
April	2,324,778	2,212,517
May	2,324,778	2,243,780
June	2,324,778	2,241,071
July	2,324,778	2,199,906
August	2,324,778	2,195,319
September	2,324,778	2,171,583
October	2,324,778	2,190,495
November	2,324,778	2,199,373
December	2,324,778	2,220,511

SOURCE: Canadian Egg Marketing Agency.

OTHER LIVESTOCK

HORSES

The 1986 Census of Agriculture indicated 5,540 farms reported 40,691 horses and ponies. This figure represents an increase of 30 per cent over the 1981 Census figure of 31,284. It was estimated that 180 farms supplied pregnant mare's urine from 11,200 mares for a gross value of $12,053,000. The latter represents a decrease of 10.1 per cent in number of mares below 1986 and a corresponding 5.1 per cent decline in value.

GOATS

The 1986 Census of Agriculture reported a total of 3,663 goats from 597 farms.

RABBITS

The 1986 Census of Agriculture reported a total of 643 rabbit farms with a rabbit population of 8,156.

OTHER PRODUCTS

FUR AND WILDLIFE

Pelts are obtained from fur farms and wildlife sources. In the 1987/88 season, pelts were obtained from 49,195 fur farms, made up of 820 fox farms and 48,375 mink farms. Fur farm pelts were valued at $1,903,458 with 95 per cent accounted for by mink pelts. The value of mink pelts in 1987/88 fell 24 per cent below the 1986/87 value.

Wildlife pelts totalled 391,744 in 1987/88, an increase of 10.7 per cent over 1986/87. The value of wildlife pelts in 1987/88 was estimated at $5,393,731 compared with that of $8,070,118 in 1986/87, a decrease of 33.2 per cent below 1986/87. The total number of pelts from both farms and wildlife marketed in Manitoba in 1987/88 was 440,939, 7.6 per cent more than in 1986/87. The total value of all fur pelts in 1987/88 was $7,297,189, a fall of 31.3 per cent from 1986/87. Table 52 shows fur statistics for 1984/85 to 1987/88.

TABLE 52 Fur Statistics, 1984/85 to 1987/88[1]

Fur Farms	1984/85	1985/86	1986/87[R]	1987/88
Fox:				
Pelts	1,200	1,522	926	820
Value	186,060	189,885	165,782	93,129
Number of Farms	16(M) 2(S)	16(M) 2(S)	16(M) 2(S)	16(M)2(S)
Mink:				
Pelts	59,425	60,082	55,072	48,375
Value	1,980,389	1,616,195	2,380,315	1,810,329
Number of Farms	28(M) 3(S)	27(M) 2(S)	27(M) 2(S)	27(M)2(S)
TOTAL PELTS	**60,625**	**61,604**	**55,998**	**49,195**
TOTAL VALUE	**2,166,449**	**1,806,080**	**2,546,097**	**1,903,458**
Wildlife:				
Pelts	298,537	230,051	353,791	391,744
Value	4,784,524	5,061,210	8,070,118	5,393,731
TOTAL FURS				
Pelts	**359,162**	**291,655**	**409,789**	**440,939**
Value	**6,950,973**	**6,867,290**	**10,616,215**	**7,297,189**

[1]Manitoba fur farm statistics for 1984 and 1985 include Saskatchewan figures (due to confidentiality requirements).

R Revised. (M) Manitoba. (S) Saskatchewan.

SOURCE: Statistics Canada; Cat. No. 23-207.

FOREST PRODUCTS

The value of production was estimated at $1,516,000 in 1988, up 1.7 per cent from the revised value of $1,491,000 in 1987. This was based on total commercial sales and included plywood and fence posts. The 1986 Census reported 124 217 hectares (306,948 acres) of woodlands compared to 284 184 hectares (613,277 acres) reported in the 1981 Census of Manitoba.

HONEY AND ALFALFA LEAFCUTTER BEES

Following the relatively mild winter of 1987-88, most beekeepers reported good wintering success. Due to the presence of parasitic mites in U.S. bees, Agriculture Canada imposed a two year embargo on U.S. package bee shipments, beginning in 1988. Spring conditions were excellent for the build-up of wintered colonies. Early pollen and nectar availability enabled beekeepers to provide less supplemental feed than usual.

The hot, dry weather that prevailed throughout July, the main nectar flow period, and into August provided excellent foraging conditions for honey bees. The available soil moisture, together with the intermittent rainfall received in many regions during July and August, sustained nectar secretion and crop growth. As a result, most beekeepers produced an excellent honey crop.

Continued low prices and soft market conditions in 1988 forced many beekeepers to sell their honey at less than 40¢/lb (88¢/kg).

TABLE 53 Honey Prices and Production, Manitoba, 1987, 1988

	1987	1988
Number of Beekeepers	1,300	1,200
Number of Colonies	109,000	88,000
Honey:		
Average kg/hive	73	84
Average lb/hive	160	185
Total Production - kg	7 957 000	7 392000
Total Production - lb	17,440,000	16,280,000
Price/kg - ¢	88	88
Price/lb - ¢	40	40
TOTAL VALUE	**$6,976,000**	**$6,512,000**
Beeswax:		
Production - kg	119 355	110 769
Production - lb	261,600	244,200
Price/kg - ¢	275	297
Price/lb - ¢	125	135
TOTAL VALUE	**$327,000**	**$329,670**
TOTAL VALUE HONEY AND BEESWAX	**$7,303,000**	**$6,841,670**

SOURCE: Manitoba Agriculture.

Alfalfa Leafcutter Bees. Alfalfa leafcutter bees are used in the pollination of alfalfa for seed production. The hot, dry weather experienced throughout July and August provided excellent foraging conditions for leafcutter bees. Some regions of the province experienced brief but heavy rainshowers during July; this moisture served to stimulate some regrowth in alfalfa seed fields, thereby extending the blooming period well into August. As a result, Manitoba producers realized above average bee reproduction and an above average alfalfa seed crop in 1988.

TABLE 54 Production of Leafcutter Bees and Alfalfa Seed

	1987	1988
Number of Leafcutter Beekeepers	168	189
Number of Leafcutter Bees	260,000,000	290,000,000
Price of Leafcutter Bees (per bee)	$0.01	$0.0055
TOTAL VALUE	**$2,600,000**	**$1,595,000**
Pedigreed Alfalfa Seed - ha	6 273	10 342
Pedigreed Alfalfa Seed - ac	15,500	25,555
Alfalfa Seed Production - kg	1 700 000	3 175 200
Alfalfa Seed Production - lb	3,747,800	7,000,000
Price/kg	$2.53	$2.09
Price/lb	$1.15	$0.95
TOTAL VALUE	**$4,301,000**	**$6,650,000**
TOTAL VALUE OF BEES AND SEED	**$6,901,000**	**$8,245,000**

NOTE: 1988 statistics reflect *total* alfalfa seed acreage (pedigreed and common); i.e. alfalfa seed 10 342 hectares (25,555 acres).

SOURCE: Manitoba Agriculture.

RESOURCES

LAND AND FARMS

TABLE 55A Land Use by Area in Hectares, Manitoba, 1986

Crop District	Crops	— IMPROVED LAND — Fallow	Pasture	Other	Total	— UNIMPROVED LAND — Pasture	Woodland	Other	TOTAL LAND
				— 000 hectares —					
1	524	40	22	8	594	114	3	29	740
2	524	54	32	10	620	179	7	51	857
3	464	89	28	10	591	155	14	80	840
4	186	56	22	5	269	78	9	37	393
5	190	31	15	4	240	59	8	31	338
6	351	55	37	9	452	331	21	61	865
7	661	35	33	13	742	129	12	32	915
8	768	20	16	11	815	79	8	29	931
9	338	31	12	9	390	55	8	15	468
10	72	14	8	3	97	42	10	21	170
11	215	33	13	6	267	68	5	10	350
12	225	52	38	11	326	425	20	103	874
PROVINCE	**4 518**	**510**	**275**	**99**	**5 403**	**1 714**	**125**	**499**	**7 741**

SOURCE: Statistics Canada, Census 1986

TABLE 55B Land Use by Area in Acres, Manitoba, 1986

Crop District	Crops	— IMPROVED LAND — Fallow	Pasture	Other	Total	— UNIMPROVED LAND — Pasture	Woodland	Other	TOTAL LAND
				— 000 acres —					
1	1,295	98	55	20	1,468	283	8	72	1,831
2	1,295	133	78	25	1,531	442	17	126	2,116
3	1,146	219	68	24	1,457	382	33	196	2,068
4	461	138	54	12	665	193	22	91	971
5	468	76	37	10	591	147	21	78	837
6	868	137	92	23	1,120	818	52	152	2,142
7	1,635	87	81	32	1,835	319	28	79	2,261
8	1,898	49	39	27	2,013	196	19	72	2,300
9	835	76	30	23	964	136	20	37	1,157
10	179	34	20	7	240	103	25	51	419
11	531	81	31	15	658	168	13	26	865
12	556	129	93	27	805	1,050	49	254	2,158
PROVINCE	**11,167**	**1,258**	**678**	**245**	**13,347**	**4,237**	**307**	**1,234**	**19,125**

SOURCE: Statistics Canada, Census 1986

TABLE 56 Summerfallow Area, 1986-1988

Crop District	— 000 hectares — 1986	1987	1988	— 000 acres — 1986	1987	1988
1	40	48	49	98	119	120
2	53	53	51	132	132	126
3	88	96	86	218	236	213
4	55	58	53	137	143	130
5	31	42	36	76	105	89
6	55	50	45	136	124	112
7	35	47	35	87	115	86
8	20	27	23	48	69	57
9	31	29	22	76	71	56
10	14	15	13	34	36	33
11	32	22	18	80	54	45
12	52	39	34	128	96	83
PROVINCE	**506**	**526**	**465**	**1,250**	**1,300**	**1,150**

SOURCE: Statistics Canada

FARM NUMBER, SIZE, TYPES

The 1986 Census, taken on June 3rd, defines a farm as a farm, ranch or other agricultural holding with sales of agricultural products during the past 12 months of $250 or more.

In 1986, the total amount of all farms in Manitoba numbered 27,336, a 7.2 per cent decline from 1981. Each farm averaged 283 hectares (700 acres). Details about farm size, numbers and product sales for Manitoba in 1986 are listed below.

TABLE 57 Size and Number of Farms by Area, 1986

Crop District	Census Farms (sales ≥ $250) Number	Hectares	Acres	Number of Census Farms (with sales ≥ $2,500) Number	% of All Farms	Number of Census Farms (with sales ≥ $10,000) Number	% of All Farms
1	1,952	380	938	1,901	97	1,771	91
2	2,576	332	822	2,437	95	2,188	85
3	2,630	318	787	2,505	95	2,214	84
4	1,288	305	754	1,207	94	996	77
5	1,214	279	690	1,132	93	934	77
6	2,506	346	855	2,327	93	1,877	75
7	3,076	297	735	2,903	94	2,594	84
8	3,982	234	577	3,830	96	3,531	89
9	3,024	155	383	2,638	87	2,112	70
10	886	191	473	735	83	486	55
11	1,860	188	465	1,578	85	1,173	63
12	2,342	373	922	2,069	88	1,553	66
PROVINCE	**27,336**	**283**	**700**	**25,262**	**92**	**21,429**	**78**

SOURCE: Statistics Canada. Census of Agriculture.

TABLE 58 Farm Types By Area of Land and Number of Animals, 1986

Crop District	Per cent of Farms With — CROPS — Wheat	Oats	Barley	Flax	Canola (Rapeseed)	— LIVESTOCK — Cattle	Hogs	Sheep	Poultry
1	98	25	51	29	28	54	9	1	17
2	69	32	53	22	23	55	11	2	18
3	80	26	62	20	31	54	12	1	22
4	76	34	50	9	34	64	9	2	26
5	77	30	46	31	27	43	13	2	21
6	64	33	36	15	30	60	11	2	23
7	70	27	43	41	31	46	12	2	16
8	79	14	47	54	30	42	20	1	15
9	50	16	30	23	8	42	17	2	20
10	37	23	21	16	11	52	11	3	20
11	54	17	27	18	12	41	11	2	15
12	30	19	28	11	16	66	10	2	21
PROVINCE	**65**	**24**	**43**	**27**	**24**	**51**	**13**	**2**	**19**

SOURCE: Statistics Canada. Census of Agriculture.

TENURE

TABLE 59 Farms Classified by Tenure of Operator - 1986 Census

	No. of Operators	Total Hectares	Total Acres
Owner	25,091	4 871 428	12,037,564
Renters/Leasees	13,552	2 868 798	7,088,953
From Government	3,075	929 248	2,296,218
From Other Sources	11,729	1 939 550	4,792,735
TOTAL		**7 740 226**	**19,126,517**

SOURCE: Statistics Canada.

PEOPLE

Population

Manitoba's farm population continues to decline with the consolidation of farms. In 1986 there were 86,505 people on Census farms. Of the 27,336 farm operators, 10.6 per cent did not live on the farms they operated, 1.3 per cent lived on their farms four months or less, 1.9 per cent lived there five to eight months and 86.2 per cent lived on their farms nine to twelve months. About 44.4 per cent of the operators were between 35 and 54 years of age, 22.2 per cent under 35 years, 21.6 per cent between 55 and 64, and 11.8 per cent over 65 years of age.

Census Farm Labour

The 1986 Census of Agriculture revealed that 9,714 farms reported 1,536,485 days of total off-farm work by farm operators in 1985. Of this, 2,179 farms reported 235,001 days of agricultural work and 8,102 farms reported 1,301,484 days of non-agricultural work.

Hired Agricultural Labour. The 1986 Census of Agriculture also reported that 12,140 farms hired paid labour for 342,706 weeks. This included the hiring of 167,867 weeks of year-round labour by 2,617 farms and 174,838 weeks of seasonal labour by 10,798 farms.

FARM WAGES

In 1988, hired farm labour index experienced a 4.0 per cent increase over 1987 and 5.9 per cent over 1986. The hourly rated index reflected, on average, a 4.5 per cent increase over 1987 while the monthly rated index rose by an average of 3.5 per cent and the daily rated index increased by 4.7 per cent over last year. Total wages paid amounted to $98.1 million in 1988 with 99 per cent paid out as cash wages. This represents a 3.2 per cent decrease below the 1987 total wage cost of $101.3 million.

TABLE 60 Average Annual Wages of Farm Labour in Manitoba, 1986 - 1988

(dollars)

	— Per Hour —			— Per Day —			— Per Month —		
	1986	1987	1988	1986	1987	1988	1986	1987	1988
With Board	5.04	N.A.	N.A.	45.44	N.A.	N.A.	889.00	N.A.	N.A.
Without Board ...	6.01	N.A.	N.A.	56.21	N.A.	N.A.	1,069.25	N.A.	N.A.

SOURCE: Statistics Canada.

CAPITAL

Investment in Agriculture

In 1986, the revised average investment per Manitoba farm reporting in the 1986 Census amounted to $349,100, a decrease of 1.8 per cent below 1981. Land and buildings accounted for 70.0 per cent, machinery for 23.4 per cent and livestock for 7.6 per cent (respectively) of the total capital investment. Total provincial investment in agriculture was $9,543,007,000 in 1986, 8.8 per cent below 1981. Capital investment per farm reporting by area is listed below (based on pre-revised 1986 Census data).

In 1988, total investment in agriculture amounted to $8,670,739,000, 5.8 per cent less than the revised 1987 value of $9,202,458,000 and 9.1 per cent below the revised 1986 value of $9,543,007,000.

LAND VALUES

TABLE 61 Average Transaction Prices of Farmlands, 1986 - 1988
(Buildings Included)

Crop District	Dollars per Hectare			Dollars per Acre		
	1986	1987	1988*	1986	1987	1988*
1	660	551	488	267	223	197
2	680	761	630	275	308	255
3	603	514	394	244	208	160
4	717	524	439	290	212	177
5	704	628	552	285	254	224
6	519	474	431	210	192	174
7	862	909	843	349	368	341
8	1,285	1,226	1,353	520	496	547
9	1,764	1,690	1,723	714	684	697
10	640	840	717	259	340	290
11	1,648	1,631	2,217	667	660	897
12	460	413	540	186	167	219
Winnipeg Area						
Winnipeg	0	1,670	0	0	676	0
Assiniboia	1,502	0	0	608	0	0
Charleswood	3,057	10,005	5,829	1,237	4,049	2,359
Fort Garry	3,677	6,706	0	1,488	2,714	0
St. Vital	2,100	18,251	0	850	7,386	0
N. Kildonan	0	15,145	0	0	6,129	0
Old Kildonan	0	26,633	0	0	10,778	0
Transcona	536	8,236	61,281	217	3,333	24,800
Other						
LGD Consol (The Pas)	818	885	860	331	358	348
Unorganized	628	217	0	254	88	0
Unknown Code	0	0	0	0	0	0
PROVINCE	**867**	**853**	**784**	**351**	**345**	**317**

*Figures are for the first six months of 1988 only.
SOURCE: Manitoba Farm Lands Ownership Board.

Capital Investment

The average capital investment in land and buildings was $240,864 per farm, based on the 1986 Census. This value has decreased substantially since 1981, reflecting trends towards lower land values. Since 1981, capital investment in land and buildings has declined as land values have fallen. In 1986 the total value of capital invested in land and buildings was estimated at $6,584,281,000, down 7 per cent from the total in 1985. The value of land and buildings in Manitoba in 1988 was estimated at $5,633,511,000, 8.0 per cent below 1987. On a per farm basis, the average investment in land and buildings in 1988 was $208,649, down 8.0 per cent from the 1987 level. The estimated transaction prices per hectare (acre) of farmland by crop district is listed in Table 61.

TABLE 62 Capital Investment Per Farm Reporting By Area, 1986

Crop District	Land and Buildings	Machinery and Equipment	Livestock	Total
		— dollars per farm —		
1	288,730	113,681	43,904	428,674
2	251,804	91,322	45,647	370,326
3	208,587	83,874	35,424	313,334
4	179,993	70,664	35,847	274,452
5	194,133	71,921	30,005	282,876
6	154,967	64,321	43,354	247,847
7	320,091	103,213	50,491	449,689
8	331,555	107,827	36,039	457,056
9	261,951	72,432	46,632	362,076
10	137,384	44,453	35,212	204,766
11	232,534	69,986	42,255	325,221
12	135,084	54,313	55,217	229,420
PROVINCE	**240,864**	**83,380**	**42,860**	**349,525**

SOURCE: Statistics Canada.

TABLE 63 Value of Farm Capital, By Province, 1984 - 1988

— thousand dollars —

	1984	1985	1986	1987	1988
CANADA	**122,819,377**	**115,163,824**	**109,568,682**	**104,464,322**	**103,384,833**
Manitoba	9,971,942	9,694,791	9,543,007	9,202,458	8,670,739
B.C	7,470,804	6,971,420	6,484,271	5,944,333	5,879,280
Alberta	32,554,089	30,496,308	28,585,934	27,931,930	27,573,870
Saskatchewan	33,060,552	30,558,911	29,231,398	26,173,867	24,528,035
Ontario	27,507,166	25,530,141	23,709,300	22,953,796	24,451,211
Quebec	9,759,245	9,357,844	9,453,774	9,702,463	9,723,956
New Brunswick	728,910	754,648	755,841	750,726	749,847
Nova Scotia	939,537	948,568	961,828	964,198	968,196
P.E.I	719,737	743,890	736,770	731,693	728,767
Newfoundland	107,395	107,303	106,559	108,858	110,932

SOURCE: Statistics Canada.

MACHINERY

The number of farm trucks licensed for operation in Manitoba in 1988 was 64,956, a decrease of 2 per cent below the 1987 total of 66,097. The number of farm trucks has been dropping since 1985.

TABLE 64 Farm Machinery Numbers and Sales

	Number on Manitoba Farms	Sales During		
	1986 Census	1986	1987	1988
Tractors	73,945	1,378	1,005	1,040
Trucks	57,502			
Combines:	21,946			
self-propelled	14,082	452	199	113
pull-type	6,328	139	46	32
Balers:	15,317			
hand portable bales	9,860	126	80	54
large round bales	5,457	403	384	456
Swathers and Windrowers	24,528	686	575	601
self-propelled	14,082	482	340	424
pull-type	10,446	204	235	177
Mower Conditioners	5,080	183	182	190
Forage Crop Harvesters	978	23	10	11
Grain Dryers	3,381			
Potato Harvesters	343			
All Other Farm Machinery	21,724			

SOURCE: Statistics Canada; Canadian Farm and Industrial Equipment Institute.

FERTILIZER

The volume of sales excluding mixed fertilizers, increased to 678 200 tonnes (747,700 tons) in 1988 from 616 000 tonnes (679,100 tons) in 1987.

TABLE 65 Sales in Manitoba, July 1 to June 30, 1986 to 1988[R]

— thousands —

	Tonnes Sold			Tons Sold		
Formulation	**1986**	**1987**	**1988**	**1986**	**1987**	**1988**
Types:						
Ammonium Phosphate	214.5	165.9	191.3	236.5	182.9	210.9
Ammonium Nitrate	70.6	49.2	54.4	77.8	54.2	60.0
Urea	168.7	142.5	150.6	186.0	157.1	166.0
Anhydrous Ammonia	109.1	119.3	134.4	120.3	131.5	148.2
Nitrogen Solutions	66.6	52.6	53.1	73.4	58.0	58.5
Ammonium Sulphate	11.0	12.0	21.5	12.1	13.2	23.7
Potassium Chloride	25.4	26.6	35.7	28.0	29.3	39.4
Other Fertilizer Materials[1]	0.9	47.9	37.2	1.0	52.8	41.0
TOTAL FERTILIZER SALES	**666.8**	**616.0**	**678.2**	**735.1**	**679.1**	**747.7**

[1]Includes other nitrogen, other phosphates and other fertilizers. R Revised.

SOURCE: Statistics Canada; Western Canada Fertilizer Association.

HERBICIDES

In 1988, 5.895 million kilograms (12.996 million pounds) of active ingredients of herbicides were used for agricultural purposes in Manitoba. This represented an increase of 66 per cent above the total usage of 1987 and 25 per cent more than 1986. Use of 2,4-D decreased by 6.5 per cent, TCA decreased by 58 per cent and MCPA decreased by 11.8 per cent relative to their respective 1987 levels. The use of other chemicals rose by 96 per cent from 1987, while Bromoxynil-Dicamba decreased by 28 per cent. Wild oat herbicides, however, more than doubled its use.

The area treated for wild oats in 1988 rose by 81 per cent above 1987 to 2 904 647 hectares (7,177,600 acres) in 1988 from 1 603 100 hectares (3,961,300 acres) in 1987.

TABLE 66 Herbicides Used for Agricultural Purposes in Manitoba

Formulation	1986	1987	1988
	'000 kilograms of active ingredients		
2,4-D	**645**	**536**	501
Ester	151	118	106
Amine	494	418	395
TCA	**89**	**97**	**41**
MCPA	**479**	**466**	411
Ester	46	64	57
Amine	380	338	292
Na+, K+, Salt	53	63	62
OTHER CHEMICALS	**745**	**423**	**830**
BROMOXYNIL & DICAMBA	**690**	**870**	**629**
WILD OAT HERBICIDES	**2 085**	**1 168**	**2 571**
TOTAL	**4 733**	**3 560**	**5 895**
	'000 pounds of active ingredients		
2,4-D	**1,422**	**1,181**	1,104
Ester	333	260	234
Amine	1,089	921	870
TCA	**196**	**213**	**89**
MCPA	**1,056**	**1,027**	905
Ester	101	141	125
Amine	838	746	645
Na+, K+, Salt	117	140	136
OTHER CHEMICALS	**1,642**	**932**	**1,831**
BROMOXYNIL & DICAMBA	**1,521**	**1,919**	**1,386**
WILD OAT HERBICIDES	**4,597**	**2,576**	**5,667**
TOTAL	**10,434**	**7,848**	**12,996**
WILD OAT HERBICIDES		area treated	
Hectares	2 737 700	1 603 100	2 904 647
Acres	6,765,000	3,961,300	7,177,600

SOURCE: Manitoba Agriculture.

WEATHER

TABLE 67 Weather Record for the Year 1988, Winnipeg

Month	Temperture: Mean Monthly °C	Temperture: Normal Mean °C	Precipitation: 1988 mm	Precipitation: Normal mm	Sunshine: Duration (Hours)	Sunshine: Per Cent of Possible	Sunshine: Normal Hours
January	-18.2	-19.3	8.8	21.3	120.3	45.0	121.2
February	-15.7	-15.6	10.7	17.5	169.3	57.9	144.2
March	-4.5	-8.2	24.2	22.7	187.4	51.0	176.2
April	5.1	3.4	0.8	38.5	298.2	72.3	219.8
May	14.6	11.3	29.9	65.7	288.5	60.5	265.6
June	22.0	16.8	94.9	80.1	361.9	74.0	276.1
July	21.1	19.6	70.8	75.9	347.3	70.5	315.6
August	20.1	18.3	8.5	75.2	256.9	57.3	283.3
September	12.6	12.4	61.3	53.3	200.4	52.8	184.6
October	3.8	6.1	26.8	30.9	194.1	58.1	151.5
November	-4.4	-4.5	21.3	25.2	60.7	22.3	90.7
December	-12.8	-14.0	22.5	19.2	100.3	39.6	92.6
YEAR	**3.6**	**2.2**	**380.5**	**525.5**	**2,585.3**	**57.6**	**2,321.4**

SOURCE: Atmospheric Environment Service, Environment Canada.

TABLE 68A Precipitation at Various Manitoba Points, 1988

— millimetres —

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	YEAR
Altona	30.00	18.00	31.00	3.00	39.90	16.70	39.70	32.40	32.40	24.80	33.00	43.00	343.90
Birtle	9.80	6.40	13.00	8.20	126.30	44.60	37.90	94.30	43.00	12.80	18.10	N.A.	N.A.
Brandon A	15.90	7.30	20.00	5.20	48.10	39.00	121.80	32.00	60.40	13.00	20.50	12.80	396.00
Carman	21.00	14.00	17.00	1.00	35.90	33.60	79.30	0.20	55.40	15.00	22.00	22.10	316.50
Churchill A	11.00	10.20	19.60	65.20	24.30	78.20	48.40	83.50	39.60	69.40	33.40	17.30	500.10
Cypress River	20.00	11.80	17.60	3.00	57.80	44.60	64.00	6.60	61.60	16.40	14.80	24.40	342.60
Dauphin A	6.50	9.70	37.30	31.10	122.30	28.30	54.60	68.70	33.20	19.00	13.10	23.40	457.20
Emerson	29.60	25.90	34.10	TR	40.40	25.30	53.70	59.80	31.10	24.60	48.60	61.70	434.80
Flin Flon A	39.00	15.40	28.00	28.00	1.80	29.80	62.80	76.00	73.40	14.80	25.50	18.20	412.70
Gimli	15.60	14.80	37.80	9.00	29.60	51.00	86.20	23.80	61.20	22.00	25.00	25.50	401.50
Hamiota #2	34.40	9.30	40.70	17.00	49.60	23.10	52.20	71.60	54.40	18.40	24.20	30.40	425.30
Lundar	15.00	10.00	N.A.	12.90	96.20	29.80	89.00	35.50	43.60	20.00	18.00	24.00	N.A.
McCreary	N.A.	N.A.	35.40	10.20	59.40	21.80	38.20	68.40	N.A.	12.00	10.00	0.30	N.A.
Morden AC	15.20	6.40	18.80	TR	21.40	43.00	42.80	20.80	37.20	17.60	22.00	28.40	273.60
Morris	18.60	9.60	30.80	0.60	44.20	33.60	86.00	66.20	38.80	38.40	32.00	33.20	432.00
Neepawa Water	11.60	15.60	25.20	4.40	73.20	10.80	50.20	68.60	79.90	14.80	12.40	70.00	436.70
Pierson	19.60	5.60	24.20	9.20	74.20	40.60	80.00	15.40	83.20	12.80	45.20	31.60	441.60
Pilot Mound	22.60	9.60	13.00	1.00	38.80	34.40	36.20	2.60	54.20	17.60	17.40	25.60	273.00
Pinawa	16.80	10.30	42.20	4.40	53.20	93.10	134.60	36.80	75.70	37.50	29.10	N.A.	N.A.
Portage la Prairie	15.40	6.80	26.50	3.40	49.20	27.20	97.70	8.30	60.50	30.00	20.40	17.90	363.30
Roblin	N.A.	7.60	N.A.	35.70	93.40	60.10	47.30	124.80	25.20	23.60	18.80	32.50	N.A.
Russell	23.00	14.00	54.20	23.60	95.60	38.00	36.40	56.00	34.20	11.00	29.00	30.20	445.20
Souris	15.00	6.40	44.20	2.40	55.40	48.00	137.40	14.80	66.00	20.80	37.80	22.40	470.60
Sprague	18.20	8.40	72.00	TR	39.80	13.20	191.00	56.20	69.60	27.60	38.00	63.60	597.60
Steinbach	5.00	10.00	25.00	TR	47.60	29.00	115.60	34.50	40.50	37.00	31.00	22.50	397.70
Swan River #2	23.00	18.00	85.00	48.00	110.40	35.00	29.60	72.30	36.60	32.00	20.00	33.00	542.90
The Pas A	17.10	16.50	18.50	22.60	33.50	19.70	54.50	74.30	70.20	8.80	21.80	12.60	370.10
Thompson A	26.90	14.10	17.00	40.10	88.60	65.40	89.70	66.60	58.30	38.40	29.30	22.20	556.60
Turtle Mountain #6	21.00	5.70	50.90	5.20	54.80	47.00	79.00	12.90	61.50	16.80	32.80	24.10	411.70
Virden	14.00	8.20	37.60	4.00	73.40	31.60	55.50	21.50	69.80	10.90	40.80	11.70	379.00
Winnipeg A	8.80	10.70	24.20	0.80	29.90	94.90	70.80	8.50	61.30	26.80	21.30	22.50	380.50

TABLE 68B Precipitation at Various Manitoba Points, 1988

— inches —

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	YEAR
Altona	1.18	0.71	1.22	0.12	1.57	0.66	1.56	1.28	1.28	0.98	1.30	1.69	13.54
Birtle	0.39	0.25	0.51	0.32	4.97	1.76	1.49	3.71	1.69	0.50	0.71	N.A.	N.A.
Brandon A	0.63	0.29	0.79	0.20	1.89	1.54	4.80	1.26	2.38	0.51	0.81	0.50	15.59
Carman	0.83	0.55	0.67	0.04	1.41	1.32	3.12	0.01	2.18	0.59	0.87	0.87	12.46
Churchill A	0.43	0.40	0.77	2.57	0.96	3.08	1.91	3.29	1.56	2.73	1.31	0.68	19.69
Cypress River	0.79	0.46	0.69	0.12	2.28	1.76	2.52	0.26	2.43	0.65	0.58	0.96	13.49
Dauphin A	0.65	0.38	1.47	1.22	4.81	1.11	2.15	2.70	1.31	0.75	0.52	0.92	18.00
Emerson	1.17	1.02	1.34	TR	1.59	1.00	2.11	2.35	1.22	0.97	1.91	2.43	17.12
Flin Flon A	1.54	0.61	1.10	1.10	0.07	1.17	2.47	2.99	2.89	0.58	1.00	0.72	16.25
Gimli	0.61	0.58	1.49	0.35	1.17	2.01	3.39	0.94	2.41	0.87	0.98	1.00	15.81
Hamiota #2	1.35	0.37	1.60	0.67	1.95	0.91	2.06	2.82	2.14	0.72	0.95	1.20	16.74
Lundar	0.59	0.39	N.A.	0.51	3.79	1.17	3.50	1.40	1.72	0.79	0.71	0.94	N.A.
McCreary	N.A.	N.A.	1.39	0.40	2.34	0.86	1.50	2.69	N.A.	0.47	0.39	0.01	N.A.
Morden AC	0.60	0.25	0.74	TR	0.84	1.69	1.69	0.82	1.46	0.69	0.87	1.12	10.77
Morris	0.73	0.38	1.21	0.02	1.74	1.32	3.39	2.61	1.53	1.51	1.26	1.31	17.01
Neepawa Water	0.46	0.61	0.99	0.17	2.88	0.43	1.98	2.70	3.15	0.58	0.49	2.76	17.19
Pierson	0.77	0.22	0.95	0.36	2.92	1.60	3.15	0.61	3.28	0.50	1.78	1.24	17.39
Pilot Mound	0.89	0.38	0.51	0.04	1.53	1.35	1.43	0.10	2.13	0.69	0.69	1.01	10.75
Pinawa	0.66	0.41	1.66	0.17	2.09	3.67	5.30	1.45	2.98	1.48	1.15	N.A.	N.A.
Portage la Prairie	0.61	0.27	1.04	0.13	1.94	1.07	3.85	0.33	2.38	1.18	0.80	0.70	14.30
Roblin	N.A.	0.30	N.A.	1.41	3.68	2.37	1.86	4.91	0.99	0.93	0.74	1.28	N.A.
Russell	0.91	0.55	2.13	0.93	3.76	1.50	1.43	2.20	1.35	0.43	1.14	1.19	17.53
Souris	0.59	0.25	1.74	0.09	2.18	1.89	5.41	0.58	2.60	0.82	1.49	0.88	18.53
Sprague	0.72	0.33	2.83	TR	1.57	0.52	7.52	2.21	2.74	1.09	1.50	2.50	23.53
Steinbach	0.20	0.39	0.98	TR	1.87	1.14	4.55	1.36	1.59	1.46	1.22	0.89	15.66
Swan River #2	0.91	0.71	3.35	1.89	4.35	1.38	1.17	2.85	1.44	1.26	0.79	1.30	21.37
The Pas A	0.67	0.65	0.73	0.89	1.32	0.78	2.15	2.93	2.76	0.35	0.86	0.50	14.57
Thompson A	1.06	0.56	0.67	1.58	3.49	2.57	3.53	2.62	2.30	1.51	1.15	0.87	21.91
Turtle Mountain #6	0.83	0.22	2.00	0.20	2.16	1.85	3.11	0.51	2.42	0.66	1.29	0.95	16.21
Virden	0.55	0.32	1.48	0.16	2.89	1.24	2.19	0.85	2.75	0.43	1.61	0.46	14.92
Winnipeg A	0.35	0.42	0.95	0.03	1.18	3.74	2.79	0.33	2.41	1.06	0.84	0.89	14.98

TR Not a measurable amount. N.A. Data not available. AC Agriculture Canada A Airport
NOTE: Totals may not add due to conversion to Imperial from metric data.
SOURCE: Environment Canada.

PAST TRENDS

TABLE 69 Historical Production Value Summary

Year	Crops	Livestock	Honey & Wax	Other	Total
			— million dollars —		
1954	143	101	0.6	3.4	248
1955	172	106	0.9	4.1	283
1956	208	103	0.9	4.1	316
1957	157	110	0.9	4.1	272
1958	195	141	0.8	4.2	341
1959	201	132	0.8	4.2	338
1960	224	124	0.9	3.1	352
1961	137	135	1.0	4.0	277
1962	293	129	0.8	3.2	426
1963	243	135	1.1	3.9	383
1964	295	134	1.0	3.0	433
1965	321	143	1.1	3.9	469
1966	322	165	1.4	3.6	492
1967	307	164	1.6	3.4	476
1968	294	164	0.7	3.3	462
1969	264	209	1.5	3.5	478
1970	233	223	1.5	1.5	459
1971	338	206	1.4	1.6	547
1972	437	253	3.0	1.0	69
1973	929	355	3.9	2.1	1,290
1974	708	339	3.5	3.5	1,054
1975	767	326	3.2	4.8	1,101
1976	741	330	4.8	7.2	1,083
1977	851	345	5.2	7.8	1,209
1978	1,077	428	8.0	4.0	1,517
1979	1,028	537	9.3	5.7	1,580
1980	1,122	533	9.3	4.7	1,669
1981	1,451	524	10.7	5.3	1,991
1982	1,434	562	11.0	7.8	2,015
1983	1,383	583	9.9	8.5	1,985
1984	1,620	661	9 1	11.3	2,302
1985	1,722	685	13.6*	13.7	2,434
1986	1,203	756	13.1*	23.7	1,996
1987	1,136	778	14.2*	24.4	1,952
1988	963	792	13.7*	20.9	1,790

*Includes value of leafcutter bees and alfalfa seed production.

TABLE 70A Historical Production and Value of Wheat - Metric

Year	Planted Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	To ($0
1954	865	910	789.0	48.00	37
1955	839	1 360	1 143.0	52.00	59
1956	890	1 710	1 524.0	48.00	72
1957	891	1 495	1 333.0	48.00	64
1958	1 004	1 655	1 660.0	50.00	82
1959	1 081	1 560	1 687.0	51.00	85
1960	1 133	1 585	1 796.0	59.00	106
1961	1 179	785	926.0	65.00	59
1962	1 231	1 770	2 177.0	62.00	136
1963	1 276	1 300	1 660.0	63.00	104
1964	1 370	1 690	2 313.0	60.00	138
1965	1 311	1 640	2 150.0	61.00	130
1966	1 317	1 630	2 150.0	65.00	140
1967	1 424	1 720	2 449.0	60.00	147
1968	1 376	1 800	2 477.0	48.00	119
1969	1 012	1 720	1 742.0	46.00	79
1970	567	1 465	830.0	52.00	43
1971	1 019	1 975	2 014.0	50.00	101
1972	1 052	1 785	1 878.0	68.00	128
1973	1 214	1 725	2 095.0	158.00	331
1974	1 133	1 415	1 605.0	147.00	236
1975	1 255	1 690	2 123.0	130.00	275
1976	1 538	1 820	2 803.0	103.00	288
1977	1 295	2 125	2 749.0	98.00	269
1978	1 376	2 055	2 831.0	133.00	375
1979	1 214	1 680	2 041.0	170.00	346
1980	1 336	1 425	1 905.0	203.00	386
1981	1 578	2 110	3 326.0	174.00	580
1982	1 619	2 285	3 701.0	165.00	609
1983	1 862	1 830	3 410.0	174.00	594
1984	1 801	2 080	3 743.0	172.00	643
1985	1 942	2 690	5 226.0	148.00	773
1986	2 003	2 240	4 477.0	97.00	434
1987	1 963	2 010	3 946.5	100.00	397
1988	1 950	1 230	2 400.9	122.00	292

TABLE 70B Historical Production and Value of Wheat - Imperial

Year	Planted Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1954	2,139	13.5	29,000	1.31	37,990
1955	2,075	20.2	42,000	1.42	59,640
1956	2,199	25.6	56,000	1.30	72,800
1957	2,200	22.3	49,000	1.32	64,680
1958	2,480	24.6	61,000	1.36	82,960
1959	2,670	23.1	62,000	1.38	85,560
1960	2,800	23.6	66,000	1.61	106,260
1961	2,914	11.7	34,000	1.76	59,840
1962	3,042	26.3	80,000	1.70	136,000
1963	3,153	19.3	61,000	1.71	104,310
1964	3,385	25.1	85,000	1.63	138,550
1965	3,240	24.4	79,000	1.65	130,350
1966	3,255	24.3	79,000	1.78	140,620
1967	3,520	25.6	90,000	1.64	147,600
1968	3,400	26.8	91,000	1.31	119,544
1969	2,500	25.6	64,000	1.24	79,360
1970	1,400	21.8	30,500	1.42	43,310
1971	2,519	29.4	74,000	1.37	101,380
1972	2,600	26.5	69,000	1.86	128,340
1973	3,000	25.7	77,000	4.30	331,100
1974	2,800	21.1	59,000	4.00	236,000
1975	3,100	25.2	78,000	3.53	275,340
1976	3,800	27.1	103,000	2.80	288,400
1977	3,200	31.6	101,000	2.67	269,670
1978	3,400	30.6	104,000	3.61	375,440
1979	3,000	25.0	75,000	4.62	346,260
1980	3,300	21.2	70,000	5.52	386,512
1981	3,900	31.3	122,200	4.75	580,041
1982	4,000	34.0	136,000	4.48	609,439
1983	4,600	27.2	125,300	4.74	594,204
1984	4,450	30.9	137,500	4.68	643,796
1985	4,800	40.0	192,000	4.03	773,448
1986	4,950	33.2	164,500	2.64	434,269
1987	4,850	29.9	145,000	2.72	394,650
1988	4,820	18.3	88,200	3.31	292,021

TABLE 71A Historical Production and Value of Oats - Metric

Year	Harvested For Grain (000 hectares)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	611	910	555 000	40.00	22,320
1955	601	1 285	771 000	42.00	32,000
1956	789	1 720	1 357 000	34.00	45,760
1957	607	1 220	740 000	34.00	24,960
1958	579	1 330	771 000	36.00	28,000
1959	575	1 340	771 000	42.00	32,000
1960	607	1 425	864 000	40.00	34,720
1961	526	705	370 000	41.00	15,120
1962	726	1 890	1 373 000	38.00	52,510
1963	656	1 455	956 000	36.00	34,100
1964	662	1 700	1 126 000	42.00	47,450
1965	617	1 850	1 141 000	46.00	52,540
1966	619	1 595	987 000	49.00	48,000
1967	647	1 575	1 018 000	45.00	45,540
1968	639	1 955	1 249 000	32.00	40,500
1969	619	1 720	1 064 000	35.00	37,260
1970	510	1 600	817 000	37.00	30,210
1971	565	2 075	1 172 000	34.00	40,280
1972	461	1 840	848 000	58.00	49,500
1973	526	1 850	972 000	106.00	102,690
1974	486	1 365	633 000	99.00	65,360
1975	445	1 735	771 000	93.00	72,000
1976	506	1 860	941 000	73.00	68,930
1977	425	2 105	894 000	64.00	57,420
1978	304	2 080	632 000	64.00	40,590
1979	182	1 690	308 000	89.00	27,400
1980	182	1 525	278 000	119.00	33,120
1981	243	1 905	463 000	105.00	48,580
1982	223	2 350	524 000	81.00	42,500
1983	223	1 800	401 000	110.00	44,110
1984	231	1 940	447 000	109.00	48,723
1985	223	2 490	555 000	88.00	48,400
1986	182	2 540	463 000	74.00	34,262
1987	182	2 290	416 000	89.50	37,232
1988	223	1 380	224 000	113.00	25,312

TABLE 71B Historical Production and Value of Oats - Imperial

Year	Harvested For Grain (000 acres)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1954	1,510	23.8	36,000	0.62	22,320
1955	1,485	33.7	50,000	0.64	32,000
1956	1,950	45.0	88,000	0.52	45,760
1957	1,500	32.2	48,000	0.52	24,960
1958	1,430	35.1	50,000	0.56	28,000
1959	1,420	35.3	50,000	0.64	32,000
1960	1,500	37.3	56,000	0.62	34,720
1961	1,300	18.5	24,000	0.63	15,120
1962	1,794	49.6	89,000	0.59	52,510
1963	1,620	38.3	62,000	0.55	34,100
1964	1,635	44.6	73,000	0.65	47,450
1965	1,525	48.5	74,000	0.71	52,540
1966	1,530	41.8	64,000	0.75	48,000
1967	1,600	41.2	66,000	0.69	45,540
1968	1,580	51.3	81,000	0.50	40,500
1969	1,530	45.1	69,000	0.54	37,260
1970	1,260	42.1	53,000	0.57	30,210
1971	1,395	54.5	76,000	0.53	40,280
1972	1,140	48.2	55,000	0.90	49,500
1973	1,300	48.5	63,000	1.63	102,690
1974	1,200	35.8	43,000	1.52	65,360
1975	1,100	45.5	50,000	1.44	72,000
1976	1,250	48.8	61,000	1.13	68,930
1977	1,050	55.2	58,000	0.99	57,420
1978	750	54.7	41,000	0.99	40,590
1979	450	44.4	20,000	1.37	27,400
1980	450	40.0	18,000	1.84	33,120
1981	600	50.0	30,000	1.62	48,580
1982	550	61.8	34,000	1.25	42,500
1983	550	47.3	26,000	1.70	44,110
1984	570	50.9	29,000	1.68	48,720
1985	550	65.5	36,000	1.34	48,400
1986	450	66.7	30,000	1.14	34,262
1987	450	60.0	27,000	1.38	37,232
1988	550	26.4	14,500	1.75	25,312

TABLE 72A Historical Production and Value of Barley - Metric

Year	Harvested Hectares (000)	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	891	1 075	958 000	42.00	40,480
1955	846	1 030	871 000	43.00	37,600
1956	626	1 460	914 000	39.00	35,280
1957	690	1 040	718 000	37.00	26,730
1958	641	1 495	958 000	37.00	35,640
1959	514	1 398	718 000	36.00	25,740
1960	376	1 390	523 000	39.00	20,160
1961	265	740	196 000	48.00	9,450
1962	255	1 790	457 000	44.00	20,160
1963	236	1 475	348 000	45.00	15,520
1964	201	1 730	348 000	48.00	16,800
1965	243	1 970	479 000	48.00	23,100
1966	354	1 725	610 000	50.00	30,800
1967	393	1 825	718 000	41.00	29,370
1968	473	1 980	936 000	36.00	33,970
1969	486	1 880	914 000	32.00	28,980
1970	607	1 830	1 110 000	34.00	37,740
1971	830	2 465	2 047 000	32.00	65,800
1972	850	2 180	1 851 000	58.00	107,100
1973	850	2 125	1 807 000	115.00	208,330
1974	728	1 585	1 154 000	102.00	117,600
1975	607	1 830	1 110 000	105.00	116,280
1976	647	2 255	1 459 000	92.00	134,000
1977	769	2 660	2 047 000	76.00	155,100
1978	708	2 615	1 851 000	78.00	143,650
1979	587	2 150	1 263 000	103.00	129,920
1980	809	1 940	1 568 000	137.00	214,560
1981	951	2 450	2 330 000	119.00	277,228
1982	809	2 935	2 373 000	91.00	215,961
1983	708	2 245	1 589 000	120.00	190,680
1984	728	2 660	1 938 000	121.00	234,498
1985	749	3 370	2 526 000	96.00	242,496
1986	627	2 950	1 851 000	75.00	138,825
1987	688	2 820	1 938 000	62.50	121,125
1988	607	1 840	1 045 000	86.00	89,546

TABLE 72B Historical Production and Value of Barley - Imperial

Year	Harvested Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1954	2,202	20.0	44,000	0.92	40,480
1955	2,090	19.1	40,000	0.94	37,600
1956	1,548	26.9	42,000	0.84	35,280
1957	1,704	19.4	33,000	0.81	26,730
1958	1,584	27.8	44,000	0.81	35,640
1959	1,270	25.9	33,000	0.78	25,740
1960	930	26.1	24,000	0.84	20,160
1961	655	13.7	9,000	1.05	9,450
1962	629	33.4	21,000	0.96	20,160
1963	584	27.4	16,000	0.97	15,520
1964	497	32.2	16,000	1.05	16,800
1965	601	36.6	22,000	1.05	23,100
1966	875	32.0	28,000	1.10	30,800
1967	970	34.0	33,000	0.89	29,370
1968	1,170	36.8	43,000	0.79	33,970
1969	1,200	35.0	42,000	0.69	28,980
1970	1,500	34.0	51,000	0.74	37,740
1971	2,052	45.8	94,000	0.70	65,800
1972	2,100	40.5	85,000	1.26	107,100
1973	2,100	39.5	83,000	2.51	208,330
1974	1,800	29.4	53,000	2.22	117,660
1975	1,500	34.0	51,000	2.28	116,280
1976	1,600	41.9	67,000	2.00	134,000
1977	1,900	49.5	94,000	1.65	155,100
1978	1,750	48.6	85,000	1.69	143,650
1979	1,450	40.0	58,000	2.24	129,920
1980	2,000	36.0	72,000	2.98	214,560
1981	2,350	45.5	107,000	2.59	277,228
1982	2,000	54.5	109,000	1.98	215,961
1983	1,750	41.7	73,000	2.61	190,680
1984	1,800	49.4	89,000	2.63	234,498
1985	1,850	62.7	116,000	2.09	242,496
1986	1,550	54.8	85,000	1.63	138,825
1987	1,700	52.4	89,000	1.36	121,125
1988	1,500	32.0	48,000	1.87	89,546

TABLE 73A Historical Production and Value of Canola (Rapeseed) - Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1965	58 700	925	54 400	108.00	5,880
1966	68 800	690	47 600	108.00	5,145
1967	58 700	890	52 200	85.00	4,416
1968	36 800	1 170	43 100	83.00	3,572
1969	79 300	1 000	79 400	106.00	8,400
1970	161 900	1 010	163 300	102.00	16,704
1971	235 100	1 160	272 200	95.00	25,800
1972	190 200	1 015	192 800	137.00	26,350
1973	161 900	1 080	174 600	258.00	44,968
1974	202 300	955	192 800	312.00	60,095
1975	303 500	935	283 500	225.00	63,875
1976	101 200	1 010	102 100	257.00	26,190
1977	202 300	1 435	290 300	278.00	80,768
1978	424 900	1 360	578 300	280.00	161,925
1979	546 300	1 040	567 000	267.00	151,250
1980	323 700	910	294 800	280.00	82,550
1981	242 800	1 260	306 200	275.00	84,198
1982	344 000	1 160	399 200	259.00	103,312
1983	384 000	1 035	397 000	383.00	152,051
1984	486 000	1 120	544 000	351.00	190,944
1985	405 000	1 570	635 000	266.00	168,910
1986	405 000	1 430	578 000	197.00	113,866
1987	405 000	1 440	585 000	255.00	149,175
1988	627 000	980	612 000	300.00	183,624

TABLE 73B Historical Production and Value of Canola (Rapeseed) - Imperial

Year	Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1965	145,000	16.6	2,400	2.45	5,880
1966	170,000	12.4	2,100	2.45	5,145
1967	145,000	15.9	2,300	1.92	4,416
1968	91,000	20.9	1,900	1.88	3,572
1969	196,000	17.9	3,500	2.40	8,400
1970	400,000	18.0	7,200	2.32	16,704
1971	581,000	20.7	12,000	2.15	25,800
1972	470,000	18.1	8,500	3.10	26,350
1973	400,000	19.2	7,700	5.84	44,968
1974	500,000	17.0	8,500	7.07	60,095
1975	750,000	16.7	12,500	5.11	63,875
1976	250,000	18.0	4,500	5.82	26,190
1977	500,000	25.6	12,800	6.31	80,768
1978	1,050,000	24.3	25,500	6.35	161,925
1979	1,350,000	18.5	25,000	6.05	151,250
1980	800,000	16.2	13,000	6.35	82,550
1981	600,000	22.5	13,500	6.24	84,198
1982	850,000	20.7	17,600	5.87	103,312
1983	950,000	18.4	17,500	8.69	152,051
1984	1,200,000	20.0	24,000	7.96	190,944
1985	1,000,000	28.0	28,000	6.03	168,910
1986	1,000,000	25.5	25,500	4.47	113,866
1987	1,000,000	25.8	25,800	5.78	149,175
1988	1,550,000	17.4	27,000	6.80	183,624

TABLE 74A Historical Production and Value of Flaxseed - Metric

Year	Planted Hectares (000)	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	180	565	101.6	104.00	10,600
1955	215	520	111.8	110.00	12,320
1956	319	635	203.2	102.00	20,720
1957	350	255	88.9	98.00	8,680
1958	223	535	119.4	103.00	12,314
1959	233	500	116.8	120.00	13,984
1960	286	570	162.6	108.00	17,600
1961	303	360	109.2	130.00	14,190
1962	270	735	198.1	118.00	23,400
1963	332	710	236.2	112.00	26,505
1964	415	650	269.3	116.00	31,270
1965	546	755	411.5	106.00	43,578
1966	448	595	266.0	106.00	28,350
1967	267	540	144.8	121.00	17,556
1968	332	795	264.2	112.00	29,536
1969	445	580	259.1	101.00	26,214
1970	445	655	292.1	87.00	25,530
1971	229	655	149.9	86.00	12,862
1972	202	740	149.9	161.00	24,190
1973	243	795	193.0	376.00	72,580
1974	283	590	167.6	376.00	63,096
1975	304	700	213.4	258.00	55,020
1976	212	755	160.0	267.00	42,714
1977	304	1 085	330.2	207.00	68,250
1978	304	1 045	317.5	268.00	85,125
1979	506	880	444.5	280.00	124,425
1980	324	650	210.0	320.00	67,479
1981	283	925	261.0	322.00	84,246
1982	364	1 200	436.9	244.00	106,640
1983	304	975	297.0	323.00	95,931
1984	425	1 030	439.0	317.00	139,163
1985	425	1 320	559.0	265.00	152,905
1986	417	1 370	572.0	173.00	98,956
1987	324	1 250	406.0	195.00	79,170
1988	283	700	198.0	274.00	54,254

TABLE 74B Historical Production and Value of Flaxseed - Imperial

Year	Planted Acres (000)	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1954	444	9.0	4,000	2.65	10,600
1955	531	8.3	4,400	2.80	12,320
1956	789	10.1	8,000	2.59	20,720
1957	865	4.0	3,500	2.48	8,680
1958	550	8.6	4,700	2.62	12,314
1959	575	8.0	4,600	3.04	13,984
1960	707	9.1	6,400	2.75	17,600
1961	748	5.7	4,300	3.30	14,190
1962	667	11.7	7,800	3.00	23,400
1963	820	11.3	9,300	2.85	26,505
1964	1,025	10.3	10,600	2.95	31,270
1965	1,350	12.0	16,200	2.69	43,578
1966	1,107	9.5	10,500	2.70	28,350
1967	660	8.6	5,700	3.08	17,556
1968	820	12.7	10,400	2.84	29,536
1969	1,100	9.3	10,200	2.57	26,214
1970	1,100	10.5	11,500	2.22	25,530
1971	566	10.4	5,900	2.18	12,862
1972	500	11.8	5,900	4.10	24,190
1973	600	12.7	7,600	9.55	72,580
1974	700	9.4	6,600	9.56	63,096
1975	750	11.2	8,400	6.55	55,020
1976	525	12.0	6,300	6.78	42,714
1977	750	17.3	13,000	5.25	68,250
1978	750	16.7	12,500	6.81	85,125
1979	1,250	14.0	17,500	7.11	124,425
1980	800	10.4	8,300	8.13	67,479
1981	700	14.7	10,300	8.18	84,246
1982	900	19.1	17,200	6.20	106,640
1983	750	15.6	11,700	8.20	95,931
1984	1,050	16.5	17,300	8.05	139,163
1985	1,050	21.0	22,000	6.74	152,905
1986	1,030	21.8	22,500	4.40	98,956
1987	800	20.0	16,000	4.95	79,170
1988	700	11.1	7,800	6.96	54,254

TABLE 75A Historical Production and Value of All Rye - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	37 500	1 092	40.8	37.00	1,495
1955	36 200	1 240	44.8	37.00	1,644
1956	27 800	990	27.5	39.00	1,067
1957	29 900	1 020	30.5	35.00	1,056
1958	28 600	1 050	30.0	34.00	1,020
1959	34 000	1 245	42.3	35.00	1,461
1960	33 800	1 240	41.9	34.00	1,444
1961	31 800	705	22.4	43.00	957
1962	48 200	1 585	76.5	41.00	3,150
1963	38 200	1 395	53.3	49.00	2,625
1964	54 200	1 315	71.3	41.00	2,940
1965	54 200	1 410	76.5	41.00	3,120
1966	40 200	1 525	61.4	42.00	2,592
1967	57 400	1 175	67.4	43.00	2,880
1968	48 400	1 310	63.5	39.00	2,500
1969	66 200	1 140	75.5	34.00	2,573
1970	52 800	1 365	72.0	34.00	2,469
1971	51 600	1 625	83.8	29.00	2,460
1972	32 600	1 435	46.8	51.00	2,397
1973	32 800	1 650	54.1	105.00	5,684
1974	40 800	1 545	63.0	89.00	5,625
1975	47 800	1 590	76.0	99.00	7,500
1976	36 800	1 855	68.3	85.00	5,778
1977	44 800	1 880	84.3	86.00	7,227
1978	50 800	1 955	99.4	102.00	10,140
1979	50 400	1 580	79.6	146.00	11,592
1980	60 800	1 235	75.0	171.00	12,848
1981	76 400	2 290	175.1	140.00	24,538
1982	92 800	2 295	213.1	87.00	18,564
1983	85 000	1 920	163.0	107.00	17,441
1984	88 600	2 210	195.8	93.00	18,209
1985	80 800	2 120	171.5	68.00	11,662
1986	30 900	1 970	61.0	61.00	3,721
1987	26 300	1 750	46.0	80.00	3,680
1988	40 500	1 190	48.0	109.00	5,254

TABLE 75B Historical Production and Value of All Rye - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1954	92,400	17.2	1,590	0.94	1,495
1955	89,000	19.7	1,750	0.94	1,644
1956	68,400	16.1	1,100	0.97	1,067
1957	72,900	16.5	1,200	0.88	1,056
1958	71,500	16.8	1,200	0.85	1,020
1959	83,000	20.0	1,660	0.88	1,461
1960	83,000	20.0	1,660	0.87	1,444
1961	79,500	11.1	886	1.08	957
1962	119,000	25.2	3,000	1.05	3,150
1963	95,000	22.1	2,100	1.25	2,625
1964	133,000	21.1	2,800	1.05	2,940
1965	133,000	22.6	3,000	1.04	3,120
1966	100,500	23.9	2,400	1.08	2,592
1967	141,100	18.9	2,667	1.08	2,880
1968	120,000	20.8	2,500	1.00	2,500
1969	163,000	18.1	2,958	0.87	2,573
1970	130,000	21.8	2,838	0.87	2,469
1971	128,500	25.5	3,280	0.75	2,460
1972	81,500	22.5	1,830	1.31	2,397
1973	82,000	26.2	2,145	2.65	5,684
1974	102,000	24.5	2,500	2.25	5,625
1975	117,000	25.6	3,000	2.50	7,500
1976	92,000	29.3	2,700	2.14	5,778
1977	110,000	30.0	3,300	2.19	7,227
1978	125,000	31.2	3,900	2.60	10,140
1979	125,000	25.2	3,150	3.68	11,592
1980	150,000	19.6	2,940	4.37	12,848
1981	190,000	36.3	6,900	3.56	24,538
1982	230,000	36.5	8,400	2.21	18,564
1983	210,000	30.6	6,420	2.72	17,441
1984	220,000	35.0	7,710	2.36	18,209
1985	200,000	33.8	6,760	2.32	11,662
1986	76,600	31.3	2,400	1.55	3,721
1987	65,000	27.7	1,800	2.04	3,680
1988	100,000	16.5	1,900	2.77	5,254

TABLE 76A Historical Production and Value of Mixed Grains - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	15 500	1 295	20 100	39.00	787
1955	19 000	1 310	24 900	40.00	990
1956	27 100	1 765	47 800	31.00	1,499
1957	29 300	1 390	40 800	30.00	1,220
1958	44 900	1 545	69 400	32.00	2,244
1959	55 000	1 555	85 500	36.00	3,058
1960	51 000	1 600	81 500	37.00	2,996
1961	63 500	920	58 300	45.00	2,600
1962	50 200	2 035	102 100	40.00	4,100
1963	51 000	1 560	79 600	37.00	2,964
1964	51 000	1 960	100 000	41.00	4,116
1965	59 100	2 075	122 500	42.00	5,100
1966	74 500	1 875	139 700	47.00	6,503
1967	72 000	1 900	136 800	44.00	6,030
1968	72 000	2 185	157 200	38.00	5,929
1969	76 900	1 885	144 900	31.00	4,544
1970	101 200	1 855	187 800	35.00	6,532
1971	114 900	2 400	275 600	32.00	8,775
1972	117 400	2 175	255 100	53.00	13,500
1973	119 400	2 135	255 100	101.00	25,875
1974	80 900	1 515	122 500	93.00	11,400
1975	80 900	1 890	153 100	91.00	13,950
1976	68 800	2 045	140 800	77.00	10,833
1977	68 800	2 375	163 300	80.00	13,040
1978	64 700	2 395	155 100	83.00	12,920
1979	56 700	2 125	120 400	105.00	12,626
1980	48 600	1 805	87 800	130.00	11,395
1981	48 600	2 265	110 200	115.00	12,636
1982	48 600	2 685	130 600	89.00	11,648
1983	48 600	2 015	98 000	115.00	11,270
1984	50 600	2 330	118 000	127.00	14,986
1985	50 600	2 750	139 000	113.00	15,763
1986	32 400	2 530	82 000	92.00	7,544
1987	32 400	2 530	82 000	61.00	5,002
1988	28 300	1 500	43 000	94.00	4,040

TABLE 76B Historical Production and Value of Mixed Grains - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Tot ($00
1954	38,300	25.7	984	0.80	
1955	47,000	26.0	1,222	0.81	
1956	66,900	35.0	2,342	0.64	1,4
1957	72,300	27.7	2,000	0.61	1,2
1958	111,000	30.6	3,400	0.66	2,2
1959	136,000	30.8	4,189	0.73	3,0
1960	126,000	31.7	3,994	0.75	2,9
1961	157,000	18.2	2,857	0.91	2,6
1962	124,000	40.3	5,000	0.82	4,1
1963	126,000	31.0	3,900	0.76	2,9
1964	126,000	38.9	4,900	0.84	4,1
1965	146,000	41.1	6,000	0.85	5,1
1966	184,000	37.2	6,845	0.95	6,5
1967	178,000	37.6	6,700	0.90	6,0
1968	178,000	43.3	7,700	0.77	5,9
1969	190,000	37.4	7,100	0.64	4,5
1970	250,000	36.8	9,200	0.71	6,5
1971	284,000	47.5	13,500	0.65	8,7
1972	290,000	43.1	12,500	1.08	13,5
1973	295,000	42.4	12,500	2.07	25,8
1974	200,000	30.0	6,000	1.90	11,4
1975	200,000	37.5	7,500	1.86	13,9
1976	170,000	40.6	6,900	1.57	10,8
1977	170,000	47.1	8,000	1.63	13,0
1978	160,000	47.5	7,600	1.70	12,9
1979	140,000	42.1	5,900	2.14	12,6
1980	120,000	35.8	4,300	2.65	11,3
1981	120,000	45.0	5,400	2.35	12,6
1982	120,000	53.3	6,400	1.82	11,6
1983	120,000	40.0	4,800	2.31	11,2
1984	125,000	46.4	5,800	2.55	14,9
1985	125,000	54.4	6,800	2.32	15,7
1986	80,000	50.0	4,000	1.89	7,5
1987	80,000	50.0	4,000	1.25	5,0
1988	70,000	30.0	2,100	1.92	4,0

TABLE 77A Historical Production and Value of Grain Corn - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	4 000	1 475	5 900	43.00	254
1955	2 500	1 920	4 800	43.00	208
1956	2 900	1 550	4 500	48.00	214
1957	3 200	1 595	5 100	47.00	240
1958	2 800	1 570	4 400	46.00	203
1959	2 000	1 900	3 800	37.00	142
1960	2 200	2 045	4 500	43.00	193
1961	1 700	1 825	3 100	45.00	141
1962	1 300	2 615	3 400	45.00	152
1963	1 800	2 555	4 600	49.00	225
1964	2 000	1 600	3 200	47.00	150
1965	2 400	1 585	3 800	49.00	188
1966	1 200	2 750	3 300	58.00	191
1967	2 200	3 180	7 000	59.00	412
1968	1 000	2 500	2 500	53.00	132
1969	1 200	2 085	2 500	54.00	135
1970	1 400	2 570	3 600	58.00	210
1971	3 700	3 025	11 200	49.00	550
1972	5 300	3 360	17 800	61.00	1,085
1973	6 500	3 445	22 400	120.00	2,684
1974	2 000	2 400	4 800	145.00	697
1975	4 900	3 900	19 100	120.00	2,288
1976	6 900	4 230	29 200	119.00	3,473
1977	9 700	4 060	39 400	103.00	4,061
1978	35 600	4 140	147 300	110.00	16,240
1979	52 600	3 765	198 100	124.00	24,570
1980	56 700	3 360	190 500	134.00	25,500
1981	91 100	4 740	431 800	106.00	46,205
1982	80 900	3 140	254 000	105.00	26,671
1983	77 000	2 830	218 000	130.00	28,340
1984	73 000	3 230	236 000	140.00	33,040
1985	40 500	1 880	76 000	120.00	9,120
1986	13 800	4 420	61 000	92.00	7,164
1987	20 200	5 400	109 000	92.00	10,028
1988	32 400	3 210	104 000	107.00	11,134

TABLE 77B Historical Production and Value of Grain Corn - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1954	9,900	23.3	231	1.10	254
1955	6,300	30.0	189	1.10	208
1956	7,100	25.0	178	1.20	214
1957	8,000	25.0	200	1.20	240
1958	7,000	25.0	175	1.16	203
1959	5,000	30.0	150	0.95	142
1960	5,500	32.5	179	1.08	193
1961	4,100	30.0	123	1.15	141
1962	3,300	40.0	132	1.15	152
1963	4,500	40.0	180	1.25	225
1964	5,000	25.0	125	1.20	150
1965	6,000	25.0	150	1.25	188
1966	2,900	44.8	130	1.47	191
1967	5,500	50.0	275	1.50	412
1968	2,500	40.0	100	1.32	132
1969	3,000	33.3	100	1.35	135
1970	3,500	40.0	140	1.50	210
1971	9,100	48.4	440	1.25	550
1972	13,000	53.8	700	1.55	1,085
1973	16,000	55.0	880	3.05	2,684
1974	5,000	38.0	190	3.67	697
1975	12,000	62.5	750	3.05	2,288
1976	17,000	67.6	1,150	3.02	3,473
1977	24,000	64.6	1,550	2.62	4,061
1978	88,000	65 9	5,800	2.80	16,240
1979	130,000	60.0	7,800	3.15	24,570
1980	140,000	53.6	7,500	3.40	25,500
1981	225,000	75.6	17,000	2.72	46,205
1982	200,000	50.0	10,000	2.67	26,671
1983	190,000	45.3	8,600	3.30	28,340
1984	180,000	51.7	9,300	3.56	33,040
1985	100,000	30.0	3,000	3.04	9,120
1986	34,000	70.6	2,400	2.34	5,612
1987	50,000	86.0	4,300	2.33	10,028
1988	80,000	51.2	4,100	2.72	11,134

TABLE 78A Historical Production and Value of Field Peas - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	12 100	1 215	14 700	77.00	1,134
1955	16 600	670	11 150	74.00	820
1956	22 500	1 415	31 800	55.00	1,752
1957	22 700	1 005	22 850	55.00	1,260
1958	21 000	945	19 800	74.00	1,456
1959	19 800	810	16 000	70.00	1,117
1960	16 600	1 255	20 850	74.00	1,534
1961	18 900	1 010	19 050	77.00	1,470
1962	12 900	1 055	13 600	81.00	1,100
1963	15 000	1 270	19 050	85.00	1,610
1964	23 900	1 545	36 950	70.00	2,578
1965	17 200	1 495	25 700	66.00	1,699
1966	18 600	1 070	19 900	83.00	1,645
1967	12 100	1 575	19 050	77.00	1,470
1968	13 400	1 070	14 350	75.00	1,072
1969	21 000	970	20 400	69.00	1,402
1970	24 300	1 140	27 750	68.00	1,897
1971	20 500	1 595	32 650	64.00	2,100
1972	18 200	1 495	27 200	70.00	1,900
1973	14 200	1 610	22 850	202.00	4,620
1974	16 200	1 395	22 600	232.00	5,246
1975	14 200	1 435	20 400	165.00	3,375
1976	15 400	1 750	26 950	174.00	4,702
1977	22 300	1 650	36 750	202.00	7,425
1978	25 500	2 025	51 700	151.00	7,790
1979	28 300	1 825	51 700	160.00	8,265
1980	34 000	1 440	49 000	238.00	11,664
1981	40 500	1 950	78 950	250.00	19,731
1982	44 500	1 835	81 650	193.00	15,758
1983	40 500	1 680	68 000	220.00	14,960
1984	44 500	1 830	81 600	227.00	18,523
1985	40 500	2 689	108 900	211.00	23,000
1986	58 700	1 760	103 400	190.00	19,646
1987	72 800	1 980	144 200	194.00	27,975
1988	72 800	1 080	78 900	215.00	16,963

TABLE 78B Historical Production and Value of Field Peas - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1954	30,000	18.0	540	2.10	1,134
1955	41,000	10.0	410	2.00	820
1956	55,600	21.0	1,168	1.50	1,752
1957	56,000	15.0	840	1.50	1,260
1958	52,000	14.0	728	2.00	1,456
1959	49,000	12.0	588	1.90	1,117
1960	41,000	18.7	767	2.00	1,534
1961	46,700	15.0	700	2.10	1,470
1962	31,800	15.7	500	2.20	1,100
1963	37,000	18.9	700	2.30	1,610
1964	59,000	23.0	1,357	1.90	2,578
1965	42,500	22.2	944	1.80	1,699
1966	46,000	15.9	731	2.25	1,645
1967	30,000	23.3	700	2.10	1,470
1968	33,000	16.0	528	2.03	1,072
1969	52,000	14.4	750	1.87	1,402
1970	60,000	17.0	1,020	1.86	1,897
1971	50,700	23.7	1,200	1.75	2,100
1972	45,000	22.2	1,000	1.90	1,900
1973	35,000	24.0	840	5.50	4,620
1974	40,000	20.8	830	6.32	5,246
1975	35,000	21.4	750	4.50	3,375
1976	38,000	26.1	990	4.75	4,702
1977	55,000	24.5	1,350	5.50	7,425
1978	63,000	30.2	1,900	4.10	7,790
1979	70,000	27.1	1,900	4.35	8,265
1980	84,000	21.4	1,800	6.48	11,664
1981	100,000	29.0	2,900	6.80	19,731
1982	110,000	27.3	3,000	5.25	15,758
1983	100,000	25.0	2,500	5.98	14,960
1984	110,000	27.3	3,000	6.18	18,523
1985	100,000	37.0	3,700	5.75	23,000
1986	145,000	26.2	3,800	5.17	19,646
1987	180,000	29.4	5,300	5.28	27,975
1988	180,000	16.1	2,900	5.85	16,963

TABLE 79A Historical Production and Value of Buckwheat - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1960	6 100	835	5 100	46.00	234
1961	5 300	585	3 100	53.00	164
1962	4 000	1 140	4 550	74.00	336
1963	6 100	1 075	6 550	66.00	435
1964	10 500	830	8 700	46.00	400
1965	8 100	535	4 350	48.00	210
1966	9 200	805	7 400	85.00	629
1967	18 200	830	11 450	92.00	1,050
1968	20 200	570	11 550	90.00	1,034
1969	20 200	700	14 150	80.00	1,138
1970	32 400	940	30 500	64.00	1,960
1971	32 400	1 075	34 850	69.00	2,400
1972	30 400	825	25 050	64.00	1,610
1973	26 300	745	19 600	172.00	3,375
1974	16 200	940	15 240	223.00	3,402
1975	10 100	925	9 350	156.00	1,462
1976	17 800	480	8 700	186.00	1,616
1977	32 400	1 010	32 650	207.00	6,750
1978	48 600	1 210	58 800	207.00	12,150
1979	54 600	400	21 750	201.00	4,380
1980	39 700	440	17 400	287.00	5,000
1981	50 600	905	45 700	377.00	17,237
1982	46 500	470	21 750	317.00	6,902
1983	36 400	655	23 900	320.00	7,648
1984	28 300	460	13 100	345.00	4,520
1985	12 100	880	10 700	344.00	4,890
1986	21 900	920	20 200	248.00	5,010
1987	16 000	1 260	20 200	248.00	5,010
1988	20 200	1 250	12 400	254.00	3,150

TABLE 80A Historical Production and Value of Mustard Seed - Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1972	6 100	935	5 700	99.00	562
1972	6 100	935	5 700	99.00	562
1973	16 200	895	14 500	154.00	2,240
1974	16 200	840	13 600	408.00	5,550
1975	9 300	710	6 600	275.00	1,812
1976	7 300	890	6 500	248.00	1,613
1977	16 200	1 005	16 300	232.00	3,780
1978	25 100	1 155	29 000	243.00	7,040
1979	10 100	940	9 500	221.00	2,100
1980	17 800	915	16 300	331.00	5,400
1981	18 200	1 050	19 100	382.00	7,296
1982	10 100	1 060	10 700	240.00	2,569
1983	12 100	960	11 600	353.00	4,095
1984	16 200	840	13 600	353.00	4,801
1985	16 200	1 235	20 000	350.00	7,000
1986	14 200	1 210	17 200	287.00	4,936
1987	6 100	1 260	7 700	260.00	2,002
1988	8 100	840	8 200	221.00	1,812

TABLE 79B Historical Production and Value of Buckwheat - Imperial

Year	Planted Acres	Yield Per Acre (bushels)	Production (000 bushels)	Farm Value Price Per Bushel $	Farm Value Total ($000)
1960	15,000	15.6	234	1.00	234
1961	13,200	10.8	143	1.15	164
1962	10,000	21.0	210	1.60	336
1963	15,000	20.0	300	1.45	435
1964	26,000	15.4	400	1.00	400
1965	20,000	10.0	200	1.05	210
1966	22,700	15.0	340	1.85	629
1967	45,000	11.7	525	2.00	1,050
1968	50,000	10.6	530	1.95	1,034
1969	50,000	13.0	650	1.75	1,138
1970	80,000	17.5	1,400	1.40	1,960
1971	80,000	20.0	1,600	1.50	2,400
1972	75,000	15.3	1,150	1.40	1,610
1973	65,000	13.8	900	3.75	3,375
1974	40,000	17.5	700	4.86	3,402
1975	25,000	17.2	430	3.40	1,462
1976	44,000	9.1	400	4.04	1,616
1977	80,000	18.8	1,500	4.50	6,750
1978	120,000	22.5	2,700	4.50	12,150
1979	135,000	7.4	1,000	4.38	4,380
1980	98,000	8.2	800	6.25	5,000
1981	125,000	16.8	2,100	8.21	17,237
1982	115,000	8.7	1,000	6.90	6,902
1983	90,000	12.2	1,100	6.95	7,648
1984	70,000	8.6	600	7.51	4,520
1985	30,000	16.3	490	7.52	4,890
1986	54,000	17.2	930	5.39	5,010
1987	40,000	23.3	930	5.39	5,010
1988	50,000	11.4	570	5.53	3,150

TABLE 80B Historical Production and Value of Mustard Seed - Imperial

Year	Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1972	15,000	833	12,500	.045	562
1973	40,000	800	32,000	.070	2,240
1974	40,000	750	30,000	.185	5,550
1975	23,000	630	14,500	.125	1,812
1976	18,000	800	14,400	.112	1,613
1977	40,000	900	36,000	.105	3,780
1978	62,000	1,032	64,000	.110	7,040
1979	25,000	840	21,000	.100	2,100
1980	44,000	818	36,000	.150	5,400
1981	45,000	933	42,000	.173	7,296
1982	25,000	940	23,500	.109	2,569
1983	30,000	850	25,500	.160	4,095
1984	40,000	750	30,000	.160	4,801
1985	40,000	1,100	44,000	.160	7,000
1986	35,000	1,086	38,000	.130	4,936
1987	15,000	1,133	17,000	.120	2,002
1988	20,000	900	18,000	.100	1,812

TABLE 81A Historical Production and Value of Sunflowers - Metric

Year	Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1959	12 900	545	7 000	88.00	614
1960	11 300	905	10 200	99.00	1,008
1961	12 300	790	9 700	99.00	961
1962	8 300	845	7 000	121.00	845
1963	15 000	1 060	15 900	97.00	1,547
1964	19 400	590	11 400	111.00	1,260
1965	19 400	620	12 000	132.00	1,584
1966	17 400	730	12 700	132.00	1,680
1967	17 800	900	16 000	99.00	1,584
1968	15 000	725	10 900	110.00	1,200
1969	19 400	795	15 400	121.00	1,870
1970	26 300	895	23 600	138.00	3,250
1971	62 700	840	52 700	135.00	7,091
1972	76 900	895	68 900	154.00	10,640
1973	50 600	785	39 700	220.00	8,750
1974	8 500	975	8 300	450.00	3,731
1975	25 100	1 190	29 900	221.00	6,600
1976	20 200	1 190	24 000	221.00	5,300
1977	66 800	1 190	79 400	253.00	20,125
1978	87 000	1 325	115 200	243.00	27,940
1979	153 800	1 355	208 700	242.00	50,600
1980	129 500	1 225	158 800	220.00	35,000
1981	109 300	1 455	158 800	227.00	36,038
1982	70 800	1 235	87 300	198.00	17,289
1983	40 500	1 120	45 400	298.00	13,529
1984	78 900	1 150	90 700	360.00	32,652
1985	64 700	1 190	77 100	230.00	17,733
1986	23 100	1 430	33 100	209.00	6,918
1987	28 300	1 570	44 500	202.00	8,989
1988	34 400	1 240	42 600	190.00	8,094

TABLE 81B Historical Production and Value of Sunflowers - Imperial

Year	Acres	Yield Per Acre (pounds)	Production (000 pounds)	Farm Value Price Per Pound $	Farm Value Total ($000)
1959	32,000	480	15,360	.040	614
1960	28,000	800	22,400	.045	1,008
1961	30,500	700	21,350	.045	961
1962	20,500	749	15,360	.055	845
1963	37,000	950	35,150	.044	1,547
1964	48,000	525	25,200	.050	1,260
1965	48,000	550	26,400	.060	1,584
1966	43,100	650	28,000	.060	1,680
1967	44,000	800	35,200	.045	1,584
1968	37,000	650	24,000	.050	1,200
1969	48,000	708	34,000	.055	1,870
1970	65,000	800	52,000	.0625	3,250
1971	155,000	750	116,250	.061	7,091
1972	190,000	800	152,000	.070	10,640
1973	125,000	700	87,500	.100	8,750
1974	21,000	867	18,200	.205	3,731
1975	62,000	1,065	66,000	.100	6,600
1976	50,000	1,060	53,000	.100	5,300
1977	165,000	1,061	175,000	.115	20,125
1978	215,000	1,182	254,000	.110	27,940
1979	380,000	1,211	460,000	.110	50,600
1980	320,000	1,094	350,000	.100	35,000
1981	270,000	1,296	350,000	.103	36,038
1982	175,000	1,100	192,500	.090	17,289
1983	100,000	1,000	100,000	.135	13,529
1984	195,000	1,026	200,000	.163	32,652
1985	160,000	1,063	170,000	.100	17,733
1986	57,000	1,281	73,000	.090	6,918
1987	70,000	1,400	98,000	.090	8,989
1988	85,000	1,106	94,000	.090	8,094

TABLE 82A Historical Production and Value of Tame Hay - Metric

Year	Hectares (000)	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	220	4.74	1 043	11.00	11,500
1955	240	4.41	1 058	11.60	12,243
1956	260	4.42	1 150	11.00	12,680
1957	290	3.99	1 157	11.00	12,750
1958	320	2.89	924	15.20	14,011
1959	348	3.92	1 332	16.50	22,020
1960	380	3.83	1 457	14.20	20,717
1961	410	2.00	820	19.30	15,820
1962	420	4.51	1 896	15.40	29,260
1963	410	4.13	1 694	16.50	28,005
1964	400	3.32	1 329	17.60	23,440
1965	390	3.80	1 481	18.20	26,928
1966	430	4.43	1 903	18.20	34,617
1967	430	3.37	1 451	19.30	28,000
1968	380	3.82	1 451	20.40	29,600
1969	400	3.31	1 724	18.20	31,350
1970	470	4.30	2 023	16.50	33,450
1971	440	4.33	1 905	18.20	34,650
1972	490	3.70	1 814	22.10	40,000
1973	490	4.07	1 996	33.10	66,000
1974	510	4.27	2 177	38.60	84,000
1975	510	4.45	2 268	40.80	92,500
1976	570	4.14	2 359	41.50	97,968
1977	570	4.14	2 359	41.30	97,500
1978	570	4.62	2 631	40.70	107,010
1979	550	4.29	2 359	50.00	117,936
1980	530	2.57	1 361	70.00	95,250
1981	510	4.45	2 268	60.00	136,078
1982	510	4.45	2 268	55.00	124,738
1983	526	4.14	2 177	55.00	119,735
1984	526	3.97	2 087	62.00	129,394
1985	546	3.99	2 177	62.80	136,716
1986	587	5.25	3 084	61.00	188,124
1987	627	4.63	2 903	45.00	130,635
1988	647	2.66	1 724	79.00	136,300

TABLE 82B Historical Production and Value of Tame Hay - Imperial

Year	Acres (000)	Yield Per Acre (tons)	Production (000 tons)	Farm Value Price Per Ton $	Farm Value Total ($000)
1954	540	2.13	1,150	10.00	11,500
1955	583	2.00	1,166	10.50	12,243
1956	634	2.00	1,268	10.00	12,680
1957	722	1.77	1,275	10.00	12,750
1958	790	1.29	1,019	13.75	14,011
1959	834	1.76	1,468	15.00	22,020
1960	934	1.72	1,606	12.90	20,717
1961	1,004	0.90	904	17.50	15,820
1962	1,045	2.00	2,090	14.00	29,260
1963	1,020	1.83	1,867	15.00	28,005
1964	990	1.48	1,465	16.00	23,440
1965	960	1.70	1,632	16.50	26,928
1966	1,065	1.97	2,098	16.50	34,617
1967	1,052	1.52	1,600	17.50	28,000
1968	940	1.70	1,600	18.50	29,600
1969	1,000	1.90	1,900	16.50	31,350
1970	1,160	1.92	2,230	15.00	33,450
1971	1,084	1.94	2,100	16.50	34,650
1972	1,200	1.67	2,000	20.00	40,000
1973	1,200	1.83	2,200	30.00	66,000
1974	1,250	1.92	2,400	35.00	84,000
1975	1,250	2.00	2,500	37.00	92,500
1976	1,400	1.86	2,600	37.68	97,968
1977	1,400	1.86	2,600	37.50	97,500
1978	1,400	2.07	2,900	36.90	107,010
1979	1,350	1.93	2,600	45.36	117,936
1980	1,300	1.15	1,500	63.50	95,250
1981	1,250	2.00	2,500	54.43	136,078
1982	1,250	2.00	2,500	49.90	124,738
1983	1,300	1.85	2,400	49.89	119,735
1984	1,300	1.77	2,300	56.24	129,394
1985	1,350	1.78	2,400	57.00	136,716
1986	1,450	2.34	3,400	55.33	188,124
1987	1,550	2.06	3,200	40.82	130,635
1988	1,600	1.19	1,900	72.00	136,300

TABLE 83A Historical Production and Value of Silage Corn - Metric

Year	Planted Hectares	Yield Per Hectare (tonnes)	Production (000 tonnes)	Farm Value Price Per Tonne $	Farm Value Total ($000)
1954	6 400	10.78	69	6.60	456
1955	6 300	13.49	85	6.64	564
1956	7 800	11.41	89	6.60	588
1957	7 200	11.39	82	6.60	540
1958	9 600	10.42	100	8.30	825
1959	11 300	11.68	132	7.70	1,022
1960	10 900	11.93	130	7.70	1,001
1961	12 700	8.90	113	10.50	1,188
1962	15 600	15.13	236	7.70	1,820
1963	15 300	17.91	274	7.70	2,114
1964	19 800	11.21	222	6.60	1,470
1965	17 800	13.37	238	7.70	1,834
1966	15 000	13.80	207	7.70	1,596
1967	10 500	12.10	127	7.70	980
1968	11 900	12.77	152	7.70	1,176
1969	9 300	15.27	142	7.70	1,099
1970	8 100	13.46	109	7.70	840
1971	3 900	15.41	64	7.70	490
1972	8 900	16.29	145	11.06	1,600
1973	9 700	15.46	150	13.20	1,980
1974	11 300	16.90	191	15.40	2,940
1975	13 400	19.63	263	16.50	4,350
1976	13 400	18.96	254	16.50	4,200
1977	15 800	20.13	318	16.50	5,250
1978	17 000	21.35	363	18.70	6,800
1979	18 200	17.97	327	16.50	5,389
1980	30 400	12.53	381	28.00	10,668
1981	20 200	17.52	354	20.00	7,076
1982	31 200	15.42	481	18.00	8,655
1983	20 200	15.25	308	21.00	6,468
1984	18 200	13.50	245	22.00	5,390
1985	18 200	15.90	290	21.00	6,090
1986	12 900	21.10	272	15.90	4,325
1987	10 100	20.70	209	15.00	3,135
1988	10 100	14.40	145	14.00	2,020

TABLE 83B Historical Production and Value of Silage Corn - Imperial

Year	Planted Acres	Yield Per Acre (tons)	Production (000 tons)	Farm Value Price Per Ton $	Farm Value Total ($000)
1954	15,900	4.80	76	6.00	456
1955	15,600	6.00	94	6.00	564
1956	19,200	5.10	98	6.00	588
1957	17,900	5.00	90	6.00	540
1958	23,800	4.62	110	7.50	825
1959	28,000	5.21	146	7.00	1,022
1960	26,900	5.32	143	7.00	1,001
1961	31,300	4.00	125	9.50	1,188
1962	38,500	6.75	260	7.00	1,820
1963	37,800	7.99	302	7.00	2,114
1964	49,000	5.00	245	6.00	1,470
1965	44,000	5.95	262	7.00	1,834
1966	37,100	6.15	228	7.00	1,596
1967	26,000	5.38	140	7.00	980
1968	29,500	5.69	168	7.00	1,176
1969	23,000	6.84	157	7.00	1,099
1970	20,000	6.00	120	7.00	840
1971	9,700	7.22	70	7.00	490
1972	22,000	7.27	160	10.00	1,600
1973	24,000	6.88	165	12.00	1,980
1974	28,000	7.50	210	14.00	2,940
1975	33,000	8.79	290	15.00	4,350
1976	33,000	8.48	280	15.00	4,200
1977	39,000	8.97	350	15.00	5,250
1978	42,000	9.52	400	17.00	6,800
1979	45,000	8.00	360	14.97	5,389
1980	75,000	5.60	420	25.40	10,668
1981	50,000	7.80	390	18.14	7,076
1982	77,000	6.88	530	16.33	8,655
1983	50,000	6.80	340	19.02	6,468
1984	45,000	6.00	270	19.95	5,390
1985	45,000	7.11	320	19.03	6,090
1986	32,000	9.38	300	14.42	4,325
1987	25,000	9.20	230	13.63	3,135
1988	25,000	6.40	160	12.62	2,020

TABLE 84A Historical Production and Value of Sugar Beets - Metric

Year	Harvested Hectares	Yield Per Hectare (tonnes)	Production (tonnes)	Factory Value* Price Per Tonne $	Factory Value* Total ($000)
1954	9 514	22.60	215 013	13.18	2,834
1955	8 399	22.25	186 858	14.53	2,715
1956	9 230	22.50	207 670	18.56	3,854
1957	8 669	22.91	198 575	13.81	2,742
1958	8 885	20.02	177 909	18.17	3,233
1959	7 092	24.54	174 065	13.15	2,289
1960	10 145	23.11	234 464	15.13	3,547
1961	8 556	19.94	170 640	14.24	2,430
1962	8 727	20.45	178 473	22.28	3,976
1963	11 381	27.71	315 419	18.36	5,791
1964	12 068	21.40	258 285	15.62	4,034
1965	10 488	22.69	237 930	18.92	4,502
1966	9 326	23.79	221 840	18.51	4,106
1967	10 886	18.90	205 691	19.62	4,036
1968	11 768	23.01	270 725	17.61	4,767
1969	12 789	24.34	311 322	19.07	5,937
1970	9 317	21.05	196 084	18.87	3,700
1971	12 495	26.36	329 326	21.03	6,926
1972	11 371	26.39	300 115	24.33	7,301
1973	9 984	27.95	279 039	35.13	9,803
1974	10 899	18.44	200 938	56.14	11,281
1975	12 915	27.83	359 449	39.99	14,374
1976	12 541	27.90	349 919	34.06	11,918
1977	10 236	39.09	400 102	31.30	12,523
1978	9 575	38.93	372 800	38.17	14,230
1979	8 945	27.97	250 187	77.80	19,465
1980	9 845	23.85	234 787	55.61	13,057
1981	11 229	36.20	406 442	41.24	16,762
1982	11 234	33.14	372 271	52.43	19,518
1983	11 123	30.02	333 900	39.62	13,229
1984	10 768	30.84	332 086	33.99	11,288
1985	9 602	30.25	290 474	44.64	12,967
1986	11 017	31.74	349 693	43.32	15,149
1987	10 524	40.29	424 048	41.94	17,785
1988	9 100	24.98	227 300	42.00	9,548

*Includes deficiency payments starting in 1958.

TABLE 84B Historical Production and Value of Sugar Beets - Imperial

Year	Harvested Acres	Yield Per Acre (tons)	Production (tons)	Factory Value* Price Per Ton $	Factory Value* Total ($000)
1954	23,510	10.08	237,009	11.96	2,834
1955	20,754	9.92	205,974	13.18	2,715
1956	22,808	10.04	228,915	16.84	3,854
1957	21,420	10.22	218,889	12.53	2,742
1958	21,955	8.93	196,109	16.48	3,233
1959	17,525	10.95	191,872	11.93	2,289
1960	25,068	10.31	258,450	13.73	3,547
1961	21,141	8.90	188,096	12.92	2,430
1962	21,565	9.12	196,731	20.21	3,976
1963	28,123	12.36	347,686	16.66	5,791
1964	29,819	9.55	284,708	14.17	4,034
1965	25,917	10.12	262,270	17.16	4,502
1966	23,045	10.61	244,534	16.79	4,106
1967	26,899	8.43	226,733	17.80	4,067
1968	29,079	10.26	298,420	15.98	4,737
1969	31,602	10.86	343,170	17.30	5,937
1970	23,022	9.39	216,143	17.12	3,700
1971	30,876	11.76	363,016	19.08	6,926
1972	28,098	11.77	330,817	22.07	7,301
1973	24,670	12.47	307,585	31.87	9,803
1974	26,931	8.22	221,494	50.93	11,281
1975	31,913	12.42	396,221	36.28	14,374
1976	30,990	12.45	385,716	30.90	11,918
1977	25,292	17.44	441,032	28.40	12,523
1978	23,659	17.37	410,937	34.63	14,230
1979	22,103	12.48	275,781	70.58	19,465
1980	24,326	10.64	258,806	50.45	13,057
1981	27,747	16.15	448,021	37.41	16,762
1982	27,759	14.78	410,354	47.56	19,518
1983	27,484	13.39	368,058	35.94	13,229
1984	26,607	13.76	366,058	30.84	11,288
1985	23,727	13.49	320,189	40.50	12,967
1986	27,222	14.16	385,467	39.30	15,149
1987	26,006	17.97	467,428	38.05	17,785
1988	22,600	11.10	251,000	38.00	9,548

* Includes deficiency payments starting in 1958.

TABLE 85A Historical Production and Value of Potatoes - Metric

Year	Planted Hectares	Yield Per Hectare (kilograms)	Production (tonnes)	Farm Value	
				Price Per Tonne $	Total ($000)
1954	6 333	9 082	57 698	44.82	2,586
1955	6 111	9 076	55 466	47.76	2,649
1956	6 677	12 440	83 063	33.07	2,747
1957	6 192	7 736	47 900	62.46	2,992
1958	6 313	8 609	54 350	40.79	2,217
1959	6 273	7 731	48 499	33.07	1,604
1960	6 880	10 087	69 401	17.64	1,224
1961	8 215	4 237	34 809	35.28	1,228
1962	9 308	12 778	118 934	17.64	2,098
1963	8 013	11 769	94 303	29.39	2,772
1964	8 417	13 451	113 219	66.14	7,488
1965	9 065	13 114	118 879	32.34	3,844
1966	9 915	14 007	138 883	35.35	4,909
1967	10 724	12 265	131 535	33.45	4,400
1968	10 724	12 689	136 080	32.70	4,450
1969	11 736	14 686	172 359	42.34	7,297
1970	13 354	12 569	167 841	40.57	6,810
1971	13 233	14 053	185 967	38.93	7,240
1972	8 903	12 738	113 409	67.72	7,680
1973	12 140	16 439	199 575	46.39	9,258
1974	14 164	15 692	222 260	57.94	12,878
1975	12 950	15 760	204 100	85.74	17,500
1976	14 000	14 579	204 100	69.08	14,100
1977	15 000	16 633	249 500	86.07	21,475
1978	15 000	20 560	308 400	79.64	24,560
1979	15 000	18 827	282 400	79.64	22,490
1980	16 000	17 862	285 800	117.28	33,520
1981	16 600	18 775	311 660	115.96	36,140
1982	16 000	16 500	263 400	137.81	36,294
1983	16 000	16 100	258 000	140.46	36,315
1984	16 200	16 200	264 403	126.93	33,562
1985	18 000	18 900	340 427	111.70	38,025
1986	18 100	19 309	349 500	96.07	33,576
1987	18 200	23 400	426 400	117.00	49,889
1988	17 800	19 600	333 300	153.45	51,150

TABLE 85B Historical Production and Value of Potatoes - Imperial

Year	Planted Acres	Yield Per Acre (cwt)	Production (000 cwt)	Farm Value	
				Price Per cwt $	Total ($000)
1954	15,700	81.0	1,272	2.03	2,586
1955	15,100	81.0	1,223	2.17	2,649
1956	16,500	111.0	1,831	1.50	2,747
1957	15,300	69.0	1,056	2.83	2,992
1958	15,600	76.8	1,198	1.85	2,217
1959	15,500	69.0	1,069	1.50	1,604
1960	17,000	90.0	1,530	0.80	1,224
1961	20,300	37.8	767	1.60	1,228
1962	23,000	114.0	2,622	0.80	2,098
1963	19,800	105.0	2,079	1.33	2,772
1964	20,800	120.0	2,496	3.00	7,488
1965	22,400	117.0	2,621	1.47	3,844
1966	24,500	125.0	3,062	1.60	4,909
1967	26,500	109.4	2,900	1.52	4,400
1968	26,500	113.2	3,000	1.48	4,450
1969	29,000	131.0	3,800	1.92	7,297
1970	33,000	112.1	3,700	1.84	6,810
1971	32,700	125.4	4,100	1.77	7,240
1972	22,000	113.6	2,500	3.07	7,680
1973	30,000	146.7	4,400	2.10	9,258
1974	35,000	140.0	4,900	2.63	12,878
1975	32,000	140.6	4,500	3.89	17,500
1976	34,500	130.4	4,500	3.13	14,100
1977	37,000	148.6	5,500	3.90	21,475
1978	37,000	183.8	6,800	3.61	24,560
1979	37,000	168.3	6,226	3.61	22,490
1980	39,500	159.5	6,300	5.32	33,520
1981	40,900	168.7	6,900	5.24	36,140
1982	39,500	147.0	5,807	6.25	36,294
1983	39,500	144.0	5,701	6.37	36,315
1984	40,200	145.0	5,829	5.76	33,562
1985	44,500	168.7	7,505	5.07	38,025
1986	44,700	172.4	7,706	4.36	33,576
1987	45,000	208.9	9,402	5.31	49,889
1988	42,000	175.0	7,350	6.96	51,150

TABLE 86A **Historical Marketings of Major Crops - Metric**

Crop Year	All Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			— tonnes —		
1953-54	982 824	272 260	660 702	77 959	NA
1954-55	680 019	217 095	752 105	83 369	NA
1955-56	888 412	191 079	495 510	102 853	NA
1956-57	1 072 446	335 506	527 647	172 886	2 600
1957-58	1 133 329	298 601	427 034	73 615	4 100
1958-59	1 282 881	220 797	520 005	91 574	4 600
1959-60	1 317 799	112 365	388 757	84 893	5 000
1960-61	1 289 875	166 080	332 278	130 668	9 600
1961-62	887 949	81 767	178 691	83 420	7 800
1962-63	1 693 706	494 614	272 817	168 009	11 600
1963-64	1 379 000	222 100	186 400	202 400	14 700
1964-65	1 859 400	265 100	190 100	230 100	26 900
1965-66	1 876 700	338 600	285 200	355 400	45 500
1966-67	1 780 500	212 600	312 800	232 200	39 000
1967-68	1 762 300	238 400	269 500	120 400	41 300
1968-69	1 626 000	316 200	241 900	214 200	37 000
1969-70	1 419 800	150 300	588 000	210 700	63 800
1970-71	1 017 800	208 800	633 200	236 900	137 800
1971-72	1 556 800	199 000	1 192 800	116 700	194 800
1972-73	1 768 800	218 200	1 116 800	122 500	191 100
1973-74	1 669 600	216 800	1 002 900	156 400	145 200
1974-75	1 352 400	193 300	704 700	127 800	142 900
1975-76	1 744 300	256 000	631 500	193 300	208 800
1976-77	1 918 500	259 800	974 100	122 300	128 100
1977-78	2 517 500	283 400	1 164 700	262 800	257 000
1978-79	1 913 800	115 800	1 039 200	234 000	472 500
1979-80	2 448 000	38 600	920 500	367 900	471 800
1980-81	1 902 700	42 600	944 100	213 100	274 000
1981-82	2 811 300	84 700	1 354 200	201 900	312 800
1982-83	3 479 800	84 700	1 389 700	352 900	344 800
1983-84	3 029 400	78 800	1 232 200	284 800	304 400
1984-85	3 265 700	79 700	1 327 000	364 500	474 200
1985-86	4 836 200	100 500	1 581 900	452 800	536 500
1986-87	3 455 000	85 000	1 010 000	447 000	526 000
1987-88	3 466 000	108 000	894 000	334 000	494 000

TABLE 86B **Historical Marketings of Major Crops - Imperial**

Crop Year	All Wheat	Oats	Barley	Flax	Canola (Rapeseed)
		— thousand bushels —			
1953-54	36,112	17,654	30,345	3,069	NA
1954-55	24,986	14,077	34,543	3,282	NA
1955-56	32,643	12,390	22,758	4,049	NA
1956-57	39,405	21,755	24,234	6,806	116
1957-58	41,642	19,362	19,613	2,898	182
1958-59	47,137	14,317	23,883	3,605	204
1959-60	48,420	7,286	17,855	3,342	220
1960-61	47,394	10,769	15,261	5,144	425
1961-62	32,626	5,302	8,207	3,284	342
1962-63	62,232	32,072	12,576	6,614	511
1963-64	50,669	14,399	8,559	7,968	647
1964-65	68,323	17,191	8,730	9,059	1,188
1965-66	68,958	21,953	13,097	13,991	2,006
1966-67	65,421	13,785	14,369	9,142	1,720
1967-68	64,755	15,460	13,616	4,738	1,820
1968-69	59,744	20,506	11,110	8,431	1,682
1969-70	52,167	9,744	27,008	8,295	2,815
1970-71	37,396	13,542	29,083	9,327	6,078
1971-72	57,203	12,904	54,783	4,593	8,588
1972-73	64,992	14,149	51,295	4,823	8,426
1973-74	61,349	14,057	46,065	6,158	6,402
1974-75	49,693	12,535	32,368	5,031	6,300
1975-76	64,091	16,598	29,005	7,609	9,206
1976-77	70,494	16,843	44,738	4,814	5,647
1977-78	92,502	18,376	53,494	10,346	11,332
1978-79	70,320	7,509	47,730	9,212	20,834
1979-80	89,949	2,503	42,278	14,484	20,803
1980-81	69,912	2,762	45,659	8,389	12,081
1981-82	103,298	5,492	62,198	7,948	13,792
1982-83	127,862	5,492	63,829	13,893	15,203
1983-84	111,312	5,110	56,595	11,212	13,422
1984-85	119,995	5,168	60,949	14,350	20,908
1985-86	177,701	6,517	72,657	17,826	23,655
1986-87	126,951	5,511	46,389	17,597	23,192
1987-88	127,355	7,003	41,061	13,149	21,781

TABLE 87A Historical Quantities of Major Grain Stocks on Farms at July 31 - Metric

Year	Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			— tonnes —		
1954	217 728	154 220	348 368	17 781	
1955	81 648	77 110	174 184	17 781	
1956	108 864	123 376	87 092	2 540	
1957	326 592	539 770	195 957	3 810	
1958	244 944	385 550	130 638	2 540	
1959	217 728	262 174	239 503	5 080	
1960	244 944	277 596	304 822	2 540	
1961	353 808	323 862	239 503	5 080	
1962	54 432	77 110	43 546	5 080	
1963	163 296	200 486	65 319	2 540	
1964	81 648	154 220	65 319	3 810	
1965	190 512	246 752	43 546	2 540	
1966	136 080	185 064	43 546	7 621	
1967	190 512	123 376	65 319	2 540	
1968	571 536	138 798	195 957	1 524	
1969	1 088 640	385 550	435 460	5 080	
1970	1 088 640	462 660	195 957	5 080	
1971	517 104	138 798	108 865	20 322	
1972	707 616	215 908	217 730	25 402	52 200
1973	136 080	123 376	174 180	2 540	1 100
1974	136 080	107 950	174 180	7 620	4 500
1975	54 431	61 688	65 317	15 240	6 800
1976	81 646	92 533	108 900	10 160	49 900
1977	571 500	154 200	87 100	12 700	4 500
1978	490 000	185 000	435 000	38 000	6 800
1979	1 115 800	123 400	544 300	66 000	65 800
1980	326 600	46 300	130 600	76 200	91 000
1981	55 000	30 000	65 000	13 000	46 000
1982	270 000	60 000	200 000	10 000	14 000
1983	110 000	110 000	375 000	45 000	10 000
1984	70 000	60 000	70 000	5 000	2 000
1985	40 000	50 000	70 000	3 000	5 000
1986	40 000	100 000	130 000	20 000	20 000
1987	530 000	80 000	160 000	50 000	10 000
1988	260 000	70 000	310 000	60 000	20 000

TABLE 87B Historical Quantities of Major Grain Stocks on Farms at July 31 - Imperial

Year	Wheat	Oats	Barley	Flax	Canola (Rapeseed)
			— thousand bushels —		
1954	8,000	10,000	16,000	700	
1955	3,000	5,000	8,000	700	
1956	4,000	8,000	4,000	100	
1957	12,000	35,000	9,000	150	
1958	9,000	25,000	6,000	100	
1959	8,000	17,000	11,000	200	
1960	9,000	18,000	14,000	100	
1961	13,000	21,000	11,000	200	
1962	2,000	5,000	2,000	200	
1963	6,000	13,000	3,000	100	
1964	3,000	10,000	3,000	150	
1965	7,000	16,000	2,000	100	
1966	5,000	12,000	2,000	300	
1967	7,000	8,000	3,000	100	
1968	21,000	9,000	9,000	60	
1969	40,000	25,000	20,000	200	
1970	40,000	30,000	9,000	200	
1971	19,000	9,000	5,000	800	
1972	26,000	14,000	10,000	1,000	2,302
1973	5,000	8,000	8,000	100	49
1974	5,000	7,000	8,000	300	198
1975	2,000	4,000	3,000	600	300
1976	3,000	6,000	5,000	400	2,200
1977	21,000	10,000	4,000	500	198
1978	18,000	12,000	20,000	1,500	300
1979	41,000	8,000	25,000	2,600	2,901
1980	12,000	3,000	6,000	3,000	4,012
1981	2,021	1,945	2,985	512	2,028
1982	9,921	3,891	9,186	394	617
1983	4,042	7,133	17,224	1,772	441
1984	2,572	3,891	3,215	197	88
1985	1,470	3,242	3,215	118	220
1986	1,470	6,484	5,971	787	882
1987	19,474	5,187	7,349	1,968	441
1988	9,553	4,539	14,238	2,362	882

TABLE 88

Historical Production Value of Horticultural Crops and Forage Seeds

Year	Potatoes	Vegetables, Fruits Ornamentals	Total Horticulture	Forage Seeds
		— thousand dollars —		
1954	2,586	7,680	10,266	1,759
1955	2,649	6,595	9,244	914
1956	2,747	7,315	10,062	1,271
1957	2,992	8,150	11,142	825
1958	2,217	9,000	11,217	682
1959	1,604	9,000	10,604	1,248
1960	1,224	9,200	10,424	1,086
1961	1,228	9,090	10,318	1,254
1962	2,098	9,330	11,428	2,105
1963	2,772	10,125	12,897	1,503
1964	7,488	9,144	16,632	1,259
1965	3,844	8,861	12,705	2,162
1966	4,909	9,078	13,987	1,762
1967	4,400	10,055	14,455	1,238
1968	4,450	9,310	13,760	571
1969	7,297	9,669	16,966	1,524
1970	6,810	9,713	16,523	1,701
1971	7,240	10,632	17,872	1,684
1972	7,680	11,280	18,960	1,542
1973	9,258	11,375	20,633	5,199
1974	12,878	16,614	29,492	2,625
1975	17,500	17,468	34,968	2,031
1976	14,100	19,153	33,253	3,050
1977	21,475	18,252	39,727	3,828
1978	24,560	20,285	44,845	7,488
1979	22,490	21,786	44,276	8,312
1980	33,520	25,077	58,597	4,902
1981	36,140	26,561	62,701	6,681
1982	36,294	29,155	65,449	5,025
1983	36,315	27,187	63,502	7,371
1984	33,562	37,165	70,727	5,563
1985	38,025	35,796	73,821	6,162
1986	33,576	41,460	73,036	8,184
1987	49,889	40,903	90,792	14,093
1988	51,150	44,852	96,002	8,000

TABLE 89 Historical Value of Livestock Production

Year	Cattle	Hogs	Sheep	Dairy	Poultry	Total
			— thousand dollars —			
1954	30,393	18,768	549	28,748	22,955	101,413
1955	34,860	18,392	556	29,689	22,538	106,035
1956	32,384	16,560	510	29,641	24,175	103,270
1957	35,350	20,915	577	29,473	23,000	109,315
1958	51,552	30,143	608	32,307	25,362	139,972
1959	49,764	24,465	559	31,430	23,487	129,705
1960	50,142	17,820	614	30,959	22,031	121,566
1961	51,816	25,662	701	30,952	23,393	132,524
1962	53,048	19,614	609	30,962	21,907	126,140
1963	56,518	23,688	628	30,730	23,860	135,424
1964	54,120	25,740	629	29,986	23,856	134,331
1965	54,929	29,760	552	30,425	26,843	142,509
1966	66,341	38,324	500	29,999	30,179	165,343
1967	66,220	37,048	455	32,699	25,975	162,397
1968	64,944	35,010	400	33,775	28,522	162,651
1969	85,188	58,862	290	32,797	33,271	210,408
1970	92,303	63,826	183	32,063	33,294	221,669
1971	98,978	46,892	391	32,119	27,277	205,657
1972	112,880	71,940	470	35,980	31,879	253,149
1973	155,880	106,190	604	41,731	50,535	354,940
1974	147,840	79,402	621	57,592	52,902	338,357
1975	122,208	89,610	546	66,796	46,413	325,573
1976	113,004	87,591	415	70,360	58,455	329,825
1977	129,168	85,002	416	71,455	58,723	344,764
1978	180,780	110,000	596	67,780	61,437	420,593
1979	258,060	131,075	696	73,176	73,186	536,193
1980	248,880	118,064	871	85,496	80,171	533,482
1981	191,265	138,208	782	96,938	96,663	523,856
1982	188,692	170,408	941	106,036	95,872	561,949
1983	203,148	166,750	916	108,734	103,845	583,393
1984	240,500	191,261	929	116,172	112,550	661,412
1985	261,151	196,840	1,528	113,305	112,057	684,887
1986	296,215	254,533	2,085	117,410	111,869	755,461
1987	243,390	264,000	1,828	132,391	114,805	756,414
1988	290,000	228,000	2,201	129,194	122,550	792,230

TABLE 90 Historical Production and Value of Cattle

Year	Commerical Marketings	Local Slaughterings	Inventory Change	Inshipments (minus)	Total	Value Per Animal $	Total Value ($000)
			— thousand animals —				
1954	281	25	13	12	307	99	30,393
1955	268	22	54	12	332	105	34,860
1956	292	26	41	7	352	92	32,384
1957	346	32	-22	6	350	101	35,350
1958	356	26	-12	12	358	144	51,552
1959	300	23	45	20	348	143	49,764
1960	317	22	53	26	366	137	50,142
1961	402	26	-16	31	381	136	51,816
1962	313	23	73	60	349	152	53,048
1963	347	24	66	70	367	154	56,518
1964	399	24	49	62	410	132	54,120
1965	528	28	-62	81	413	133	54,929
1966	508	28	-42	87	407	163	66,341
1967	500	28	-52	91	385	172	66,220
1968	468	28	-57	70	369	176	64,944
1969	392	27	84	131	372	229	85,188
1970	416	26	45	104	383	241	92,303
1971	417	26	28	62	409	242	98,978
1972	432	26	42	85	415	272	112,880
1973	429	28	73	97	433	360	155,880
1974	398	26	71	47	448	330	147,840
1975	512	34	-38	52	456	268	122,208
1976	567	31	-40	120	438	258	113,004
1977	639	26	-58	139	468	276	129,168
1978	523	23	-91	62	393	460	180,780
1979	444	21	-43	31	391	660	258,060
1980	444	22	-7	51	408	610	248,880
1981	367	20	-30	46	311	615	191,265
1982	435	15	-80	48	322	586	188,692
1983	378	20	-20	36	342	594	203,148
1984	411	18	-33	28	368	653	240,500
1985	434	9	-27	23	393	664	261,151
1986	459	10	0	25	444	667	296,215
1987	420	10	-28	21	380	640	243,390
1988	425	10	-15	25	395	734	290,000

TABLE 91 Historical Commercial Marketings of Cattle - Manitoba Origin

Year	Under 1 Year		1 Year and Over		Total		
	Animals (000)	Value ($000)	Animals (000)	Value ($000)	Animals (000)	Value Each $	Value ($000)
1954	88	3,785	193	23,994	281	99	27,779
1955	82	3,832	186	24,362	268	105	28,194
1956	89	3,810	203	23,114	292	92	26,924
1957	98	4,306	248	30,533	346	101	34,839
1958	101	7,845	255	43,410	356	144	51,255
1959	89	6,675	211	36,162	300	143	42,837
1960	87	6,197	230	37,387	317	137	43,584
1961	111	8,721	291	46,143	402	136	54,864
1962	93	7,921	220	39,778	313	152	47,699
1963	90	6,776	257	46,581	347	154	53,357
1964	109	6,016	290	46,649	399	132	52,665
1965	165	11,068	363	59,234	528	133	70,302
1966	156	13,081	352	69,811	508	163	82,892
1967	165	15,135	335	70,886	500	172	86,021
1968	147	13,065	321	69,510	468	176	82,575
1969	94	10,682	298	79,123	392	229	89,805
1970	97	13,738	319	86,454	416	241	100,192
1971	109	15,674	308	85,169	417	242	100,843
1972	108	16,621	324	100,766	432	272	117,387
1973	105	24,044	324	130,370	429	360	154,414
1974	73	11,460	325	119,880	398	330	131,340
1975	91	9,874	421	127,342	512	268	137,216
1976	102	11,901	465	134,385	567	258	146,286
1977	122	15,494	517	160,870	639	276	176,364
1978	76	20,748	447	219,832	523	460	240,580
1979	73	32,131	371	260,909	444	660	293,040
1980	70	25,054	374	245,786	444	610	270,840
1981	47	14,095	320	211,610	367	615	225,705
1982	68	21,796	367	233,114	435	586	254,910
1983	72	35,576	306	188,956	378	594	224,532
1984	42	14,322	369	254,061	411	653	268,383
1985	56	19,712	378	268,464	434	664	288,176
1986	116	49,519	343	256,634	459	667	306,153
1987	127	72,340	293	196,460	420	640	268,800
1988	116	68,900	309	243,000	425	734	311,900

TABLE 92 Historical Production and Value of Hogs

Year	Commercial Marketings	Local Slaughterings	Inventory Change	Total	Value Per Animal ($)	Total Value ($000)
		- thousand animals -				
1954	336	70	-15	391	48	18,768
1955	434	84	-34	484	38	18,392
1956	388	70	-44	414	40	16,560
1957	332	64	49	445	47	20,915
1958	464	54	183	701	43	30,143
1959	654	87	-42	699	35	24,465
1960	506	76	-87	495	36	17,820
1961	519	66	26	611	42	25,662
1962	467	60	-60	467	42	19,614
1963	437	50	77	564	42	23,688
1964	582	52	26	660	39	25,740
1965	579	49	-8	620	48	29,760
1966	595	47	95	737	52	38,324
1967	766	56	20	842	44	37,048
1968	751	53	-26	778	45	35,010
1969	778	50	225	1,053	54	56,862
1970	1,093	50	215	1,358	47	63,826
1971	1,352	57	-175	1,234	38	46,892
1972	1,238	50	20	1,308	55	71,940
1973	1,277	55	-37	1,295	82	106,190
1974	1,270	53	-250	1,073	74	79,402
1975	886	52	-68	870	103	89,610
1976	835	46	22	903	97	87,591
1977	852	37	25	914	93	85,002
1978	895	40	65	1,000	110	110,000
1979	1,084	36	105	1,225	107	131,075
1980	1,250	30	-24	1,256	94	118,064
1981	1,220	23	-9	1,234	112	138,208
1982	1,229	24	0	1,253	136	170,408
1983	1,358	20	72	1,450	115	116,750
1984	1,583	26	40	1,649	116	191,261
1985	1,777	20	-55	1,742	113	196,846
1986	1,743	21	41	1,805	141	254,533
1987	1,825.3	21	67	1,913	138	264,000
1988	2,108.0	21	36	2,165	105	228,000

TABLE 93 Historical Commercial Hog Marketings - Manitoba Origin

Year	Animals (000)	Value Each $	Total Value ($000)
1954	336	48	16,128
1955	434	38	16,492
1956	388	40	15,520
1957	332	47	15,604
1958	464	43	19,952
1959	654	35	22,890
1960	506	36	18,216
1961	519	42	21,798
1962	467	42	19,614
1963	437	42	18,354
1964	582	39	22,698
1965	579	48	27,792
1966	595	52	30,940
1967	766	44	33,704
1968	751	45	33,795
1969	778	54	42,012
1970	1,093	47	51,371
1971	1,352	38	51,376
1972	1,238	55	68,090
1973	1,277	82	104,714
1974	1,270	74	93,980
1975	886	103	91,258
1976	835	97	80,995
1977	852	93	79,236
1978	895	110	98,450
1979	1,084	107	115,988
1980	1,250	94	117,500
1981	1,220	112	136,640
1982	1,229	136	167,144
1983	1,358	115	156,170
1984	1,583	116	183,628
1985	1,777	113	200,756
1986	1,743	141	245,763
1987	1,825	138	251,850
1988	2,108	105	221,340

TABLE 94 Historical Sheep and Wool Production and Value

Year	Sheep and Lamb Marketing		Wool			Total Value ($000)
	Animals (000)	Value ($000)	Kilograms Shorn (000)	Pounds Shorn (000)	Value ($000)	
1954	34	462	120	264	87	549
1955	37	480	111	244	76	556
1956	33	425	117	259	85	510
1957	34	496	102	224	81	577
1958	34	507	115	254	101	608
1959	32	455	114	252	104	559
1960	37	502	112	247	112	614
1961	42	561	128	283	140	701
1962	36	492	116	256	117	609
1963	34	516	107	236	112	628
1964	33	528	96	211	101	629
1965	28	439	85	188	113	552
1966	24	422	74	163	78	500
1967	23	384	74	163	71	455
1968	16	337	62	137	63	400
1969	10	240	58	128	50	290
1970	6	126	68	149	57	183
1971	17	357	68	150	34	391
1972	19	437	60	132	33	470
1973	18	507	63	138	97	604
1974	18	569	65	142	52	621
1975	15	520	44	98	26	546
1976	11	374	49	108	41	415
1977	10	388	34	75	28	416
1978	11	570	27	60	26	596
1979	13	655	29	61	41	696
1980	17	806	45	100	65	871
1981	18	700	45	99	62	762
1982	22	883	62	135	58	941
1983	20	874	68	149	63	937
1984	21	895	61	135	75	970
1985	20	1,494	53	117	51	1,545
1986	23	2,044	39	85	41	2,085
1987	21	1,780	37	81	48	1,828
1988	21	2,152	36	79	49	2,201

TABLE 95A Historical Dairy Production and Value - Metric

Year	Milk Production		Factory Products		
	Whole Milk or Equivalent (million kl)	Total Farm Value ($000)	Creamery Butter (000 kg)	Cheddar Cheese (000 kg)	Ice Cream (000 litres)
1954	488	28,748	11 345	557	7 755
1955	501	39,689	11 348	473	8 110
1956	489	29,641	10 596	485	7 569
1957	484	29,473	10 683	573	7 683
1958	511	32,307	12 092	314	7 965
1959	496	31,430	11 626	175	8 587
1960	485	30,959	11 239	221	9 547
1961	482	30,952	11 466	250	10 342
1962	484	30,962	11 614	286	10 760
1963	476	30,730	11 295	371	12 297
1964	459	29,986	10 688	428	13 333
1965	433	30,425	9 891	519	13 397
1966	401	29,999	8 559	654	13 220
1967	386	32,699	7 743	961	14 365
1968	390	33,775	8 009	909	14 356
1969	386	32,797	7 765	1 467	14 734
1970	374	32,063	7 100	1 919	15 284
1971	361	32,119	6 225	2 642	14 911
1972	369	35,980	5 906	4 324	15 465
1973	366	41,731	5 446	4 424	16 020
1974	346	57,561	4 611	4 248	17 556
1975	333	66,796	4 745	4 627	19 266
1976	329	70,360	4 055	4 616	20 448
1977	328	71,455	4 131	4 885	19 280
1978	291	67,780	4 276	5 122	19 752
1979	288	73,176	4 205	6 011	19 992
1980	297	85,606	4 199	6 857	21 338
1981	298	96,938	3 774	6 465	10 976
1982	303	106,036	4 266	4 788	10 540
1983	302	108,734	3 857	6 702	10 358
1984	307	116,172	3 847	6 906	9 837
1985	299	113,305	3 746	6 465	9 450
1986	291	117,410	3 859	5 859	8 638
1987	307	121,317	4 147	6 339	8 687
1988	311	129,194	4 506	6 100	8 256

TABLE 95B Historical Dairy Production and Value - Imperial

Year	Milk Production		Factory Production		
	Whole Milk or Equivalent (million lb)	Total Farm Value ($000)	Creamery Butter (000 lb)	Cheddar Cheese (000 lb)	Ice Cream (000 gals)
1954	1,075	28,748	25,012	1,227	1,706
1955	1,104	39,689	25,018	1,043	1,784
1956	1,079	29,641	23,360	1,369	1,665
1957	1,066	29,473	23,552	1,263	1,690
1958	1,127	32,307	26,657	693	1,752
1959	1,093	31,430	25,630	385	1,889
1960	1,070	30,959	24,778	487	2,100
1961	1,062	30,952	25,278	551	2,275
1962	1,066	30,962	25,605	631	2,367
1963	1,049	30,730	24,901	817	2,705
1964	1,011	29,986	23,563	944	2,933
1965	955	30,425	21,806	1,145	2,947
1966	885	29,999	18,868	1,441	2,908
1967	851	32,699	17,071	2,118	3,160
1968	860	33,775	17,656	2,004	3,158
1969	851	32,797	17,119	3,235	3,241
1970	825	32,063	15,652	4,230	3,362
1971	796	32,119	13,723	5,824	3,280
1972	813	35,980	13,020	9,532	3,402
1973	805	41,731	12,006	9,753	3,526
1974	763	57,592	10,165	9,366	3,862
1975	735	66,796	10,462	10,201	4,238
1976	725	70,360	8,940	10,176	4,410
1977	722	71,455	9,107	10,769	4,242
1978	642	67,780	9,427	11,290	4,345
1979	635	73,176	9,270	13,252	4,398
1980	654	85,606	9,257	15,117	4,694
1981	655	96,938	8,320	14,253	2,338
1982	666	106,036	9,405	10,556	2,245
1983	663	108,734	8,502	14,776	2,278
1984	675	116,172	8,483	15,225	2,164
1985	658	113,305	8,258	14,253	2,079
1986	642	117,410	8,507	12,917	1,900
1987	677	121,317	9,144	13,975	1,911
1988	696	129,194	9,936	13,448	1,816

TABLE 96 Historical Poultry Production Value

Year	Eggs	Meat	Total**
		- thousand dollars -	
1954	10,565	12,390	22,955
1955	11,290	11,248	22,538
1956	11,573	12,602	24,175
1957	10,882	12,118	23,000
1958	11,327	14,035	25,362
1959	10,160	13,327	23,487
1960	9,990	12,041	22,031
1961	10,079	13,314	23,393
1962	10,467	11,440	21,907
1963	12,119	11,741	23,860
1964	11,519	12,337	23,856
1965	13,429	13,414	26,843
1966	15,877	14,302	30,179
1967	14,378	11,597	25,975
1968	16,624	11,898	28,522
1969	19,944	13,441	33,385
1970	18,679	14,615	33,294
1971	14,176	13,101	27,277
1972	15,931	15,948	31,879
1973	26,992	23,543	50,535
1974	28,280	25,047	53,327
1975	25,774	20,452	46,226
1976	30,693	27,762	58,455
1977	30,232	28,491	58,723
1978	31,805	29,632	61,437
1979	34,978	38,208	73,186
1980	40,069	40,102	80,171
1981	47,940	47,608	95,548
1982	46,054	57,525	103,579
1983	47,375	56,470	103,845
1984	51,808	60,742	112,550
1985	51,323	60,734	112,057
1986	50,471	61,398*	111,869
1987	51,375	63,430	114,805
1988	55,294	58,628	122,550

*Includes value for "started pullets" commencing in 1986.

**Total includes a value for "other poultry".

TABLE 97A Historical Livestock Prices by Grade, St. Boniface Stockyards - Metric

Year	- LIVE CATTLE - Good Slaughter Steers (A3)	Good Slaughter Cows (D1,D2)	Good Feeder Steers (+350 kg)*	Good and Choice Veal	Over 227 kg	All Grades Calves Only	HOGS Index 100 Grades Dressed	SHEEP All Live Sheep & Lambs
	- cents per kilogram -							
1954	38.4	23.5	33.4	48.2	29.0	37.5	61.4	34.3
1955	40.7	26.1	35.4	51.4	30.8	40.7	48.6	33.8
1956	39.5	24.1	35.7	51.2	29.3	38.0	51.6	32.8
1957	39.2	26.2	37.5	52.1	31.4	40.3	62.2	35.9
1958	48.4	36.6	47.6	62.7	42.6	55.2	55.6	37.6
1959	52.6	37.6	50.5	70.0	44.4	53.8	47.0	35.7
1960	47.8	34.2	46.3	67.1	40.4	51.9	47.7	34.8
1961	47.2	34.2	47.3	66.9	40.9	53.7	54.8	33.0
1962	54.8	37.9	53.8	73.5	45.9	60.8	56.6	35.6
1963	50.7	37.7	51.2	71.5	44.5	54.1	54.7	37.5
1964	48.2	34.0	46.0	67.7	39.7	46.4	51.9	38.8
1965	51.3	32.6	48.6	65.7	40.0	47.1	67.6	42.2
1966	55.6	41.6	56.3	75.7	47.2	57.3	73.7	44.1
1967	59.3	44.0	58.5	85.7	50.0	60.3	60.7	41.6
1968	59.2	43.1	59.2	83.6	51.2	62.4	62.0	47.3
1969	64.2	52.8	70.6	92.7	60.4	76.3	78.2	53.2
1970	66.6	51.6	72.8	103.0	62.5	79.0	64.4	59.1
1971	71.4	50.9	74.4	103.8	63.4	81.2	50.4	54.6
1972	77.3	58.3	85.5	117.5	70.2	91.4	75.0	61.3
1973	96.0	77.3	103.1	146.5	85.8	112.2	113.1	74.5
1974	104.5	59.8	89.6	155.0	81.5	90.9	101.7	99.2
1975	89.5	46.9	78.0	97.5	63.1	58.8	137.9	108.5
1976	78.1	50.5	79.4	103.7	61.0	63.4	130.1	110.4
1977	80.4	55.3	83.0	97.8	65.9	66.6	125.2	140.3
1978	118.6	88.0	129.3	163.2	101.9	123.3	149.5	130.3
1979	153.5	125.4	177.4	243.4	142.5	186.5	141.4	182.8
1980	151.7	114.7	167.6	243.7	135.2	176.9	124.9	146.5
1981	154.9	106.0	159.9	238.9	130.8	161.5	148.6	120.9
1982	153.3	102.3	158.3	238.0	124.3	160.0	177.7	101.3
1983	149.5	104.3	159.6	237.3	119.5	170.2	151.0	110.8
1984	162.8	106.9	165.3	241.1	126.5	173.4	154.5	112.9
1985	156.8	107.5	165.8	220.7	121.0	167.4	146.1	123.5
1986	157.8	110.4	167.6	218.2	122.9	178.7	178.8	143.8
1987	165.0	122.1	187.4	256.5	138.6	219.9	172.3	174.3
1988	151.2	122.2	185.4	250.1	137.1	220.5	132.7	175.0

*Commencing in 1987: + 400 kg (+ 900 lb).

TABLE 97B **Historical Livestock Prices by Grade, St. Boniface Stockyards - Imperial**

Year	- LIVE CATTLE - Good Slaughter Steers (A3)	Good Slaughter Cows (D1,D2)	Good Feeder Steers (+ 800 lb)*	Good and Choice Veal	All Grades Over 500 lbs	All Grades Calves Only	HOGS Index 100 Grades Dressed	SHEEP All Live Sheep & Lambs
	- dollars per 100 pounds -							
1954	17.40	10.95	16.20	23.20	13.30	17.25	23.40	14.90
1955	18.45	11.85	16.04	23.30	13.95	18.45	22.05	15.35
1956	17.91	10.64	15.15	21.85	13.17	16.99	27.85	15.57
1957	17.78	11.90	17.00	23.65	14.23	18.26	28.20	16.28
1958	21.95	16.60	21.60	28.45	19.31	25.02	25.20	17.06
1959	23.85	17.05	22.90	31.75	20.12	24.39	21.30	16.19
1960	21.70	15.50	21.00	30.45	18.32	23.56	21.65	15.78
1961	21.40	15.50	21.45	30.35	18.55	24.35	24.85	14.95
1962	24.85	17.20	24.40	33.35	20.80	27.60	25.65	16.15
1963	23.00	17.10	23.20	32.45	20.20	24.55	24.80	17.00
1964	21.85	15.40	20.85	30.70	18.00	21.05	23.55	17.60
1965	23.25	14.80	22.05	29.80	18.15	21.35	30.65	19.15
1966	25.20	18.85	25.55	34.35	21.40	26.00	33.45	20.00
1967	26.88	19.95	26.55	38.85	22.70	27.35	27.55	18.85
1968	26.85	19.55	26.85	37.90	23.20	28.30	28.10	21.45
1969	29.10	23.95	32.00	42.05	27.40	34.60	35.45	24.15
1970	30.20	23.42	33.00	46.70	28.35	35.85	29.20	26.80
1971	32.40	23.10	33.75	47.10	28.75	36.85	22.85	24.75
1972	35.07	26.45	38.80	53.30	31.86	41.44	34.00	27.80
1973	43.53	35.06	46.76	66.44	38.91	50.90	51.31	39.93
1974	47.41	27.12	40.62	70.30	36.97	41.22	46.12	45.00
1975	40.58	21.27	35.37	44.24	28.63	26.66	62.55	49.22
1976	35.43	22.92	36.02	47.04	27.67	28.74	59.03	50.10
1977	36.47	25.10	37.66	44.37	29.88	30.23	56.78	63.64
1978	53.78	39.93	58.67	74.04	46.21	55.91	67.83	59.12
1979	69.62	56.88	80.49	110.39	64.62	84.58	64.15	82.94
1980	68.80	52.05	76.04	110.56	61.33	80.25	56.67	66.44
1981	70.26	48.10	72.55	108.37	59.31	73.26	67.40	54.82
1982	69.54	46.42	71.81	107.97	56.38	72.43	80.61	45.95
1983	67.83	47.29	72.38	107.65	54.21	77.18	68.49	50.27
1984	73.83	48.49	74.98	109.38	57.39	78.65	70.10	51.19
1985	71.12	48.75	75.21	100.12	54.89	75.92	66.25	56.04
1986	71.58	50.07	76.03	98.96	55.77	81.06	81.10	65.23
1987	74.84	55.39	85.01	116.36	62.87	99.76	78.16	79.04
1988	68.57	55.45	84.10	120.17	62.21	100.01	60.19	60.04

*Commencing in 1987: + 400 kg (+ 900 lb).

TABLE 98 Historical Numbers of Livestock on Farms - July 1

Year	Milk Cows Only	Total Cattle & Calves	Hogs	Sheep	Hens and Chickens*	Turkeys
			- thousand animals or birds -			
1954	220	792	320	76	6,715	510
1955	221	819	351	76	5,940	550
1956	223	872	311	73	5,990	664
1957	216	885	314	72	6,350	772
1958	209	868	453	78	6,980	932
1959	202	892	503	74	7,000	1,214
1960	198	931	371	76	6,400	880
1961	196	996	432	81	6,267	1,145
1962	185	982	334	76	5,465	970
1963	175	1,066	391	73	5,700	970
1964	172	1,152	460	72	6,270	885
1965	163	1,184	421	61	5,820	1,000
1966	150	1,151	499	51	5,844	1,091
1967	137	1,099	589	45	6,330	925
1968	129	1,029	547	38	6,380	870
1969	121	1,006	615	37	7,340	825
1970	116	1,104	907	40	8,540	900
1971	110	1,138	943	42	7,613	1,033
1972	105	1,210	893	36	7,530	1,000
1973	101	1,247	956	33	4,310	NA
1974	99	1,386	826	26	4,095	NA
1975	96	1,458	582	23	3,787	NA
1976	92	1,411	632	21	3,470	NA
1977	91	1,373	650	19	NA	NA
1978	88	1,262	683	20	NA	NA
1979	80	1,227	804	26	NA	NA
1980	80	1,186	823	28	NA	NA
1981	83	1,162	865	35	6,155	697
1982	80	1,125	865	38	NA	NA
1983	79	1,063	948	39	NA	NA
1984	78	985	1,060	37	NA	NA
1985	78	1,070	1,170	32	NA	NA
1986	65	1,115	1,071	25	6,298	730
1987	65	1,070	1,148	23	NA	NA
1988	66	1,075	1,250	22	NA	NA

*Hens and pullets only since 1973.

OTHER PRODUCTS

TABLE 99 Historical Production Value of Other Farm Products

Year	Honey[1]	Fur[2]	Forest	Total
		- thousand dollars -		
1954	630	3,201	463	4,294
1955	870	3,848	437	5,155
1956	896	3,622	411	4,929
1957	869	3,493	385	4,747
1958	812	3,308	359	4,479
1959	820	3,514	333	4,667
1960	873	3,078	307	4,258
1961	987	2,798	267	4,052
1962	773	3,097	226	4,096
1963	1,117	3,115	186	4,418
1964	1,017	3,111	145	4,273
1965	1,112	4,363	105	5,580
1966	1,379	3,379	117	4,875
1967	1,586	3,102	164	4,852
1968	685	2,827	200	3,712
1969	1,469	2,322	232	4,023
1970	1,520	1,348	250	3,118
1971	1,355	1,088	279	2,722
1972	3,010	1,081	352	4,443
1973	3,874	1,200	400	5,474
1974	3,517	976	378	4,871
1975	3,176	989	362	4,527
1976	4,798	1,320	482	6,600
1977	5,217	1,600	262	7,079
1978	8,019	2,614	258	10,891
1979	9,264	2,568	298	12,130
1980	9,278	2,157	280	11,715
1981	10,748	2,119	1,083	13,950
1982	10,963	1,839	1,054	13,856
1983	9,898	1,878	1,157	12,933
1984	9,753	1,582	1,137	12,472
1985	10,560	6,951	1,195	12,852
1986	13,127	6,867	1,322	21,316
1987	14,204	10,558	1,491	26,253
1988	15,087	7,297	1,516	23,900

[1]Includes beeswax, leafcutter bees and alfalfa seed production starting in1986.

[2]Includes wildlife pelts starting in 1985.

RESOURCES

TABLE 100A Census Land Use, Manitoba Farms, 1941-1986 - Metric

Year	- Improved Land - Crops	Pasture	Fallow	Other	Total	Unimproved Land	Total Land
	- thousand hectares -						
1941	2 561	185	1 120	112	3 978	2 858	6 836
1946	2 608	208	1 036	103	3 955	2 791	6 746
1951	2 968	237	1 019	131	4 355	2 820	7 175
1956	3 110	241	1 144	140	4 635	2 622	7 257
1961	3 112	291	1 307	132	4 842	2 511	7 353
1966	3 518	312	1 080	127	5 037	2 686	7 723
1971	3 691	296	1 074	120	5 181	2 511	7 692
1976	3 848	311	934	124	5 217	2 483	7 700
1981	4 420	353	598	133	5 504	2 112	7 616
1986	4 519	679	509	100	5 403	2 337	7 740

TABLE 101A Census Farm Numbers and Size, 1941-1986 - Metric

Year	Farms	Average Size Total Hectares	Improved Hectares
1941	58,024	118	68
1946	54,448	124	72
1951	52,383	137	83
1956	49,201	147	94
1961	43,306	170	112
1966	39,747	194	127
1971	34,981	220	148
1976	32,104	240	162
1981	29,442	259	187
1986	27,336	283	198

TABLE 102A Census Farm Area Land Use by Tenure, 1941-1986 - Metric

Year	Area Operated By: Owners	Renters	Owners-Renters	Managers	Total Area Owned or Managed	Rented
			- thousand hectares -			
1941	3 744	1 386	1 637	69	4 698	2 138
1946	4 062	973	1 618	94	5 056	1 691
1951	4 264	722	2 019	170	5 580	1 595
1956	4 092	655	2 335	175	5 592	1 665
1961	3 722	552	2 843	236	5 551	1 802
1966	3 878	379	3 228	238	5 938	1 785
1971	3 581	371	3 740	NA	5 691	2 001
1976	3 283	479	3 938	NA	5 500	2 200
1981	2 668	579	4 369	NA	5 098	2 518
1986	NA	NA	NA	NA	4 871	2 869

TABLE 100B Census Farm Area and Land Use, Manitoba Farms, 1941-86, Imperial

Year	- Improved Land - Crops	Pasture	Fallow	Other	Total	Unimproved Land	Total Land
			- thousand acres -				
1941	6,328	456	2,767	278	9,829	7,062	16,891
1946	6,445	514	2,560	254	9,773	6,898	16,671
1951	7,335	585	2,519	323	10,762	6,968	17,730
1956	7,686	595	2,828	345	11,454	6,478	17,932
1961	7,689	720	3,230	325	11,964	6,206	18,170
1966	8,694	770	2,669	313	12,446	6,638	19,084
1971	9,122	731	2,655	296	12,804	6,204	19,008
1976	9,508	769	2,308	306	12,891	6,135	19,026
1981	10,923	871	1,479	328	13,601	5,218	18,819
1986	11,168	679	1,258	246	13,351	5,775	19,127

TABLE 101B Census Farm Numbers and Sizes, 1941-1986 - Imperial

Year	Farms	Average Size Total Acres	Improved Acres
1941	58,024	291	169
1946	54,448	306	179
1951	52,383	338	205
1956	49,201	364	233
1961	43,306	420	276
1966	39,747	480	313
1971	34,981	543	366
1976	32,104	593	402
1981	29,442	639	462
1986	27,336	700	488

TABLE 102B Census Farm Area and Land Use by Tenure, 1941-86 - Imperial

Year	Area Operated By: Owners	Renters	Owners-Renters	Managers	Total Area Owned or Managed	Rented
			- thousand acres -			
1941	9,252	3,424	4,044	171	11,609	5,283
1946	10,038	2,404	3,997	232	12,494	4,178
1951	10,536	1,784	4,989	421	13,788	3,942
1956	10,111	1,618	5,770	433	13,818	4,113
1961	9,196	1,365	7,026	583	13,716	4,454
1966	9,584	936	7,977	587	14,673	4,411
1971	8,849	917	9,242	NA	14,063	4,945
1976	8,112	1,183	9,731	NA	13,591	5,435
1981	6,592	1,430	10,797	NA	12,596	6,223
1986	NA	NA	NA	NA	12,038	7,089

TABLE 103 Census Farm and Total Population, 1941-1986

Year	Farms	Farm Population	Manitoba Population	Farm Percent of Total
1941	58,024	249,599	729,744	34.2
1946	54,448	224,919	726,923	30.9
1951	52,383	219,233	776,541	28.2
1956	49,201	202,163	850,040	23.8
1961	43,306	172,946	921,686	18.8
1966	39,747	161,662	963,066	16.8
1971	34,981	131,202	988,247	13.3
1976	32,104	114,115	1,021,506	11.2
1981	29,442	98,375	1,026,241	9.6
1986	27,336	84,690	1,071,232	7.9

TABLE 104 Percentage of Persons in Manitoba Farm Households, 15 Years of Age and Over and in the Labour Force by Occupation, 1971, 1981, and 1986

	1971		1981		1986	
Occupation	Number	%	Number	%	Number	%
Farm Operators	26,910	41	22,715	42	22,250	41
Farm Workers	16,970	26	8,750	16	10,460	19
Construction Occupation	2,405	4	1,965	4	1,800	3
Transport Equipment	1,655	3	1,450	3	1,320	2
Clerical and Related	2,285	3	3,585	7	3,720	7
Services Occupation	2,420	4	2,535	5	2,695	5
Teaching and Related	1,300	2	1,160	2	1,220	2
Sales Occupation	1,400	2	1,780	3	1,790	3
Medicine and Health	1,005	2	1,490	3	1,670	3
Product Fabricating	1,325	2	1,620	3	1,245	2
All Other Occupations	7,740	12	6,160	11	5,815	11
Not Applicable	—	—	445	1	365	1
TOTAL	**65,405**	**100**	**53,660**	**100**	**54,345**	**100**

TABLE 105 Census Capital Investment Values, 1941-1986

Year	Land and Buildings	Machinery and Equipment	Livestock	Total	Per Farm
			- million dollars -		$
1941	229	59	51	339	5,800
1946	339	94	71	504	9,300
1951	529	232	156	917	17,500
1956	604	244	110	958	19,500
1961	720	272	162	1,154	26,600
1966	1,178	380	199	1,757	44,200
1971	1,374	412	270	2,056	58,800
1976	3,208	960	367	4,535	141,300
1981	7,836	1,823	792	10,451	355,000
1986	6,584	2,231	739	9,555	349,500

TABLE 106 **Historical Quantities of Grain Used for Feed and Seed on Manitoba Farms**
(includes waste and dockage)

Crop Year	Wheat	Oats	Barley	Wheat	Oats	Barley
	- 000 tonnes -			- million bushels-		
1953 - 1954	218	524	414	8	34	19
1954 - 1955	245	416	370	9	27	17
1955 - 1956	218	540	457	8	35	21
1956 - 1957	218	601	283	8	39	13
1957 - 1958	218	601	348	8	39	16
1958 - 1959	327	679	327	12	44	15
1959 - 1960	342	643	264	12.6	41.7	12.1
1960 - 1961	398	652	256	14.6	42.3	11.8
1961 - 1962	337	535	214	12.4	34.7	9.8
1962 - 1963	374	1 202	161	13.7	77.9	7.4
1963 - 1964	365	781	161	13.4	50.6	7.4
1964 - 1965	345	768	180	12.7	49.8	8.3
1965 - 1966	328	865	195	12.1	56.1	9.0
1966 - 1967	315	836	276	11.6	54.2	12.7
1967 - 1968	307	764	291	11.3	49.5	13.4
1968 - 1969	334	686	455	12.3	44.5	20.9
1969 - 1970	322	837	522	11.8	54.3	24.0
1970 - 1971	384	932	608	14.1	60.4	27.9
1971 - 1972	430	896	745	15.8	58.1	34.2
1972 - 1973	517	723	778	19.0	46.9	35.7
1973 - 1974	426	770	804	15.7	49.9	36.9
1974 - 1975	336	516	558	12.3	33.5	25.6
1975 - 1976	351	484	434	12.9	31.4	19.9
1976 - 1977	394	620	507	14.5	40.2	23.3
1977 - 1978	313	580	534	11.5	37.6	24.5
1978 - 1979	290	578	703	10.7	37.5	32.3
1979 - 1980	382	346	756	14.0	22.4	34.7
1980 - 1981	274	251	640	10.1	16.3	29.4
1981 - 1982	300	348	841	11.0	22.6	38.6
1982 - 1983	381	389	808	14.0	25.2	37.1
1983 - 1984	441	372	662	16.2	24.1	30.4
1984 - 1985	552	363	611	20.3	23.5	28.1
1985 - 1986	443	344	884	16.3	22.3	40.6
1986 - 1987	587	399	812	21.6	25.9	37.3
1987 - 1988	853	319	894	31.3	20.7	41.1

TABLE 107 Historical Numbers of Machinery on Farms, 1951-1986

Year	Tractors	Trucks	Combines	Swathers	Balers
1951	50,984	21,163	15,268	—	—
1956	59,265	28,556	21,425	—	—
1961	61,463	31,806	23,662	20,408	8,573
1966	65,552	36,689	24,815	23,530	12,712
1971	64,587	41,306	23,325	23,833	13,472
1976	67,077	49,844	23,467	23,843	14,173
1981	67,342	54,070	22,631	24,291	15,694
1986	73,945	57,502	21,946	24,528	15,317

TABLE 108 Historical Sales of Selected Farm Machinery in Manitoba, 1954-88

Year	Tractors	Combines	Swathers	Balers
1954	2,250	669	571	—
1955	2,216	892	679	—
1956	2,189	1,101	1,443	—
1957	2,015	877	861	963
1958	2,263	739	—	1,157
1959	2,486	1,009	768	1,547
1960	2,461	1,079	783	1,518
1961	1,803	496	743	1,043
1962	2,298	1,228	1,221	1,807
1963	2,735	1,378	1,328	1,187
1964	3,221	1,572	2,231	1,399
1965	3,037	1,900	2,339	1,212
1966	3,692	1,702	1,709	1,021
1967	2,973	1,454	1,838	642
1968	1,949	1,223	1,763	562
1969	1,610	642	1,100	537
1970	1,482	393	606	489
1971	1,138	482	772	485
1972	1,583	506	958	595
1973	2,371	856	1,462	779
1974	2,622	675	939	731
1975	2,823	856	1,471	1,007
1976	2,730	604	1,515	1,163
1977	2,190	1,012	1,131	850
1978	2,485	695	NA	297
1979	2,610	1,018	1,191	817
1980	2,251	781	1,249	810
1981	2,132	1,056	1,328	645
1982	1,787	636	977	465
1983	1,453	578	740	481
1984	1,550	580	787	383
1985	1,641	809	867	419
1986	1,378	591	430	529
1987	1,005	245	570	464
1988	1,040	145	380	510

TABLE 109 Historical Sales of Fertilizers, 1960-1988

Year Ending June 30	Major Formulations[1]	Other Materials[2]	Total	Major Formulations[1]	Other Materials[2]	Total
	tonnes			tons		
1960	19 602	777	20 379	21,607	857	22,464
1961	26 022	1 130	27 152	28,684	1,246	29,930
1962	30 004	1 802	31 806	33,073	1,986	35,059
1963	41 376	1 376	42 752	45,608	1,517	47,125
1964	51 918	2 377	54 295	57,229	2,620	59,849
1965	65 104	2 420	67 525	71,764	2,668	74,432
1966	135 560	3 590	139 150	149,427	3,957	153,384
1967	160 425	3 902	164 327	176,835	4,301	181,136
1968	216 233	3 547	219 775	238,352	3,910	242,262
1969	124 874	3 888	128 763	137,648	4,286	141,934
1970	116 632	3 706	120 338	128,563	4,085	132,648
1971	172 860	4 354	177 213	190,542	4,799	195,341
1972	189 251	7 255	196 506	208,610	7,997	216,607
1973	271 469	6 125	277 593	299,238	6,751	305,989
1974	317 689	8 553	326 242	350,192	9,428	359,620
1975	340 129	4 521	344 650	374,928	4,983	379,911
1976	363 771	5 587	369 358	400,989	6,159	407,148
1977	360 072	7 037	367 109	396,908	7,757	404,665
1978	451 158	4 650	455 808	497,317	5,126	502,443
1979	538 900	4 800	543 700	594,029	5,291	599,320
1980	545 900	2 200	548 100	601,746	2,425	604,171
1981	513 000	4 000	517 000	565,480	4,409	569,889
1982	517 800	3 500	521 300	570,600	3,900	574,500
1983	502 600	1 400	504 000	554,070	1 500	555,570
1984	583 200	5 500	588 700	642,800	6,100	648,900
1985	669 100	5 400	674 500	737,706	5,954	743,660
1986	665 900	900	666 800	734,200	992	735,147
1987	568 100	47 900	616 000	626,330	52,809	679,140
1988	641 000	37 200	678 200	706,702	41,013	747,715

[1]Includes ammonium phosphate, ammonium nitrate, urea, anhydrous ammonia, nitrogen solutions, ammonium sulphate, potassium chloride.

[2]Includes other nitrogen, other phosphates and other fertilizers.

FARM FINANCES

Farm Input Price Index

This index measures the impact of price changes on the cost of a constant base-year basket of capital material and service inputs. Items included are weighted according to relative importance and grouped according to farm use.

TABLE 110 Farm Input Price Indices, Western Canada (1981 = 100), 1975-88

Year	Bldg. and Fencing	Machinery Replacement	Machinery Operation	Crop Production	Animal Production	Supplies and Services	Hired Farm Labour	Total Farm Inputs
1975	59.8	56.2	52.0	70.6	61.1	54.8	60.5	54.5
1976	66.4	59.8	57.8	68.4	61.9	60.3	69.8	58.2
1977	71.6	64.2	62.2	65.5	61.6	64.7	77.5	59.7
1978	78.3	70.7	65.3	67.8	79.5	69.4	82.3	67.5
1979	87.4	79.9	70.5	74.9	100.7	76.3	87.2	79.1
1980	91.7	89.9	81.9	93.5	99.3	83.3	93.5	87.0
1981	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1982	106.8	106.3	112.8	98.2	99.7	109.2	106.3	103.4
1983	115.4	110.9	118.0	95.6	100.6	114.4	110.1	103.6
1984	114.2	113.5	122.2	98.7	102.3	120.0	114.7	106.6
1985	115.7	111.2	125.8	101.1	101.8	122.4	118.4	108.0
1986	123.2	113.5	118.0	100.6	108.8	122.3	121.6	108.2
1987	126.7	112.4	115.6	94.6	119.6	124.5	123.8	109.6
1988	127.1	111.6	117.2	93.7	121.8	126.6	128.8	111.2

The groups in the above table consist of the following sub groups or items.

Building and Fencing - includes building replacement and repairs (materials and labour) and fencing construction and repairs.

Machinery Replacement - (1) includes tractors, combines, ploughs, disc harrows, grain drills, manure spreaders, balers, automobiles and trucks.

Machinery and Motor Vehicle Operation - (1) includes petroleum products, maintenance, licence and motor vehicle insurance.

Crop Production - (2) includes grain legume and grass seed, fertilizer, pesticides and twine.

Animal Production - (2) includes feeder livestock - cattle, hogs, chick and turkey poults feed - prepared and grain feed; and artificial insemination.

Supplies and Services - includes small tools, electricity, telephone and custom work.

Hired Labour - includes hourly, daily and monthly rates.

(1)Farm share only.
(2)Aggregations of only a partial list of inputs identifiable to the respective types of farming and should not be construed as production cost indices.

TABLE 111 Farm Product Price Indices (1981 = 100), 1981-88

	1981	1982	1983	1984	1985	1986	1987	1988
TOTAL INDEX	**100.0**	**96.3**	**94.6**	**101.9**	**94.3**	**85.0**	**79.0**	**84.9**
TOTAL CROPS	**100.0**	**91.5**	**90.5**	**98.6**	**89.3**	**69.3**	**58.1**	**71.8**
Cereals	100.0	89.1	87.5	91.7	83.5	65.6	53.7	64.0
Oilseeds	100.0	98.8	101.7	124.6	108.1	77.4	64.6	100.9
All Other Crops[1]	100.0	99.9	95.1	109.1	105.0	89.6	89.1	83.4
TOTAL LIVESTOCK & PRODUCTS	**100.0**	**104.4**	**101.4**	**107.5**	**102.8**	**111.8**	**114.7**	**107.4**
Cattle and Calves	100.0	96.3	99.1	106.9	101.8	107.1	116.9	112.4
Hogs	100.0	119.5	101.3	103.9	97.3	123.3	120.4	91.9
Poultry	100.0	100.7	100.3	111.5	104.8	103.2	100.4	103.9
Eggs	100.0	97.1	97.5	105.8	103.1	100.7	96.9	105.0
Dairy	100.0	108.6	110.6	116.0	115.3	118.8	117.4	123.7
Other Livestock & Products[2]	100.0	102.2	99.5	94.7	87.4	90.0	90.8	80.6

[1]Includes fruits, vegetables (including potatoes), sugar beets and sunflowerseed.
[2]Includes lamb, honey and fur.

The Farm Product Price Index (FPPI), formerly called Index Numbers of Farm Prices of Agricultural Products, gives a measure of the change over time in the prices received by farmers for agricultural commodities at the first point of sale.

The Index is based on products accounting for about 95 percent of total farm cash receipts.

The price information used in compiling the index comes from a monthly survey of farm correspondents (Statistics Canada), administrative data. Bonuses and premiums are included in the prices but storage, transportation costs, processing and handling charges are excluded.

Correspondents report the average prices prevailing in an area after grades are considered.

The average prices would vary due to price and/or quality changes. In effect, the Index does not measure pure price change but only the change in revenue to farmers per unit of product marketed. Adjustments for seasonal variation in prices are not made.

TABLE 112 Manitoba Farm Cash Receipts, 1954-1988

Year	Crop Receipts	Livestock Receipts	Other Receipts	Total Cash Receipts
		- thousand dollars -		
1954	93,497	93,756	1,062	188,315
1955	79,121	93,469	5,779	178,369
1956	114,421	93,853	2,771	211,045
1957	97,046	100,200	886	198,132
1958	100,752	121,042	9,009	230,803
1959	112,999	114,842	2,687	230,528
1960	113,719	108,193	10,925	232,837
1961	114,253	124,778	3,730	242,761
1962	136,379	114,225	12,113	262,717
1963	147,707	121,768	2,273	271,748
1964	170,778	128,266	2,486	301,530
1965	184,173	155,935	2,505	342,613
1966	200,084	172,842	4,953	377,879
1967	193,198	174,481	7,123	374,802
1968	187,754	170,713	6,396	364,863
1969	168,823	176,516	5,727	351,066
1970	128,703	202,614	10,110	341,427
1971	173,905	193,543	10,352	377,800
1972	238,844	238,876	18,989	496,709
1973	281,819	328,437	17,786	628,042
1974	481,012	332,025	14,127	827,164
1975	565,301	346,184	35,533	947,018
1976	489,781	353,412	43,410	886,603
1977	472,226	378,401	31,145	881,772
1978	595,864	498,186	49,804	1,143,854
1979	711,094	562,649	66,665	1,340,408
1980	819,870	595,536	76,281	1,491,687
1981	962,068	605,461	80,490	1,648,019
1982	1,004,734	668,614	47,609	1,720,957
1983	1,099,368	620,091	78,130	1,797,589
1984	1,157,012	688,418	134,201	1,979,631
1985	1,104,980	722,440	172,246	1,999,666
1986	1,066,618	771,496	237,746	2,075,860
1987	803,732	815,964	477,557	2,097,253
1988	850,101	771,572	431,893	2,053,566

TABLE 113 Manitoba Farm Cash Receipts From Crop Sales, 1954-1988

Year	Wheat	Oats	Barley	Flaxseed	Canola (Rapeseed)	Other Crops	Total Crops
			- thousand dollars -				
1954	36,149	10,330	29,396	7,557		10,065	93,497
1955	29,975	6,331	24,266	10,394		8,155	79,121
1956	50,534	11,641	23,594	16,611		12,041	114,421
1957	46,184	10,354	14,425	11,143		14,940	97,046
1958	58,122	7,649	16,156	7,952	295	10,578	100,752
1959	66,990	6,548	18,724	11,113	211	9,413	112,999
1960	66,349	6,378	15,108	12,189	754	12,941	113,719
1961	81,410	5,522	10,367	12,603	526	3,825	114,253
1962	77,416	10,129	11,395	20,654	884	15,901	136,379
1963	91,003	12,478	9,362	16,707	1,497	16,660	147,707
1964	99,832	12,423	10,059	29,323	3,047	16,094	170,778
1965	110,968	11,593	12,172	25,320	3,170	20,950	184,173
1966	114,363	14,457	13,936	33,996	4,619	18,713	200,084
1967	120,418	12,171	15,830	20,655	3,544	20,580	193,198
1968	109,486	11,292	17,127	15,192	3,103	31,554	187,754
1969	72,057	12,886	13,268	25,685	5,418	39,509	168,823
1970	72,317	6,347	21,472	17,613	9,727	1,227	128,703
1971	77,144	7,747	31,961	14,710	14,091	28,252	173,905
1972	113,272	11,553	45,302	12,988	19,901	35,828	238,844
1973	120,963	15,684	69,946	38,535	32,472	4,219	281,819
1974	225,296	14,649	100,889	61,350	50,120	28,708	481,012
1975	287,418	28,879	99,019	38,140	42,461	69,384	565,301
1976	243,166	23,883	80,402	39,881	29,040	73,409	489,781
1977	182,535	22,151	70,867	42,099	56,694	97,880	472,226
1978	234,187	15,681	99,334	54,594	90,696	101,372	595,864
1979	281,269	6,200	102,939	77,247	122,522	120,917	711,094
1980	388,022	4,907	93,564	92,919	99,492	140,966	819,870
1981	473,512	6,983	147,752	74,343	75,337	184,141	962,068
1982	512,010	7,211	161,038	67,409	99,509	157,557	1,004,734
1983	582,917	8,464	160,290	107,918	120,997	118,782	1,099,368
1984	618,065	8,406	134,887	96,942	138,996	159,716	1,157,012
1985	517,057	7,674	152,892	124,168	138,738	164,451	1,104,980
1986	537,768	9,030	146,906	83,102	125,064	164,748	1,066,618
1987	406,000	7,544	63,759	62,689	108,806	154,934	803,732
1988	440,817	13,251	63,272	73,190	136,860	122,711	850,101

TABLE 114 Manitoba Farm Cash Receipts From Livestock Sales, 1954-1988

Year	Cattle & Calves	Hogs	Sheep & Lambs	Dairy Products	Poultry & Eggs	Other Livestock & Products	Total Livestock
				- thousand dollars -			
1954	30,046	16,441	411	21,874	20,145	4,839	93,756
1955	28,153	16,405	454	22,806	20,007	5,644	93,489
1956	28,356	14,996	406	23,051	21,551	5,493	93,853
1957	35,105	15,717	449	22,834	20,677	5,418	100,200
1958	46,556	20,501	484	25,040	23,086	5,375	121,042
1959	39,920	23,185	461	24,144	21,574	5,558	114,842
1960	40,298	17,884	466	23,868	20,570	5,107	108,193
1961	51,535	22,356	527	24,084	21,155	5,121	124,778
1962	44,074	20,628	445	24,096	19,970	5,012	114,225
1963	48,095	19,440	523	23,984	24,228	5,498	121,768
1964	51,026	23,582	544	23,699	23,972	5,443	128,266
1965	71,573	27,415	462	24,209	26,233	6,997	155,935
1966	78,326	35,084	346	24,484	30,464	6,567	172,842
1967	80,557	37,280	325	27,390	27,445	6,209	174,481
1968	76,234	36,074	244	28,388	29,763	5,323	170,713
1969	68,167	44,324	255	27,592	34,743	5,476	176,516
1970	81,239	58,021	213	27,247	34,367	4,884	202,614
1971	85,593	51,211	362	24,171	27,611	4,595	193,543
1972	105,548	66,293	362	28,183	32,173	6,317	238,876
1973	132,136	104,071	402	31,503	52,081	8,244	328,437
1974	131,791	94,758	497	42,951	54,005	8,023	332,025
1975	152,366	87,866	390	50,142	47,593	7,827	346,184
1976	155,618	79,877	383	52,087	55,843	9,604	353,412
1977	178,756	78,230	432	53,122	56,853	11,008	378,401
1978	260,375	105,026	657	57,335	59,492	15,301	498,186
1979	297,132	115,682	694	63,419	68,586	17,136	562,649
1980	308,756	117,432	860	75,491	75,618	17,379	595,536
1981	267,793	137,549	1,078	86,587	84,077	28,377	605,461
1982	286,854	169,466	1,096	95,944	84,683	30,571	668,614
1983	250,573	156,633	1,396	97,798	85,293	28,398	620,091
1984	273,287	185,928	1,536	104,926	93,398	29,343	688,418
1985	297,161	194,859	2,349	102,370	94,456	31,245	722,440
1986	293,441	242,080	1,906	106,782	96,256	31,031	771,496
1987	322,550	252,722	1,883	110,246	96,095	32,468	815,964
1988	299,737	218,757	1,711	118,185	102,743	30,439	771,572

TABLE 115 Manitoba Farm Cash and Overhead Expenses, 1954-1988

Year	Machinery Operation	Dep. Bldgs. & Mach.	Interest on Debt	Rent & Taxes	Hired Labour	Feed & Seed Bought Comm.	Fert.	Other	Total Value
				- thousand dollars -					
1954	37,342	33,181	6,061	13,416	11,136	9,374	2,386	10,757	123,653
1955	39,251	31,983	6,472	14,467	10,256	10,119	1,526	10,928	125,002
1956	41,176	31,249	6,412	16,759	11,058	11,055	1,571	11,797	131,077
1957	41,682	31,986	6,373	15,379	11,523	10,594	1,666	11,569	130,772
1958	41,396	32,397	6,662	16,862	11,930	12,324	1,584	12,849	136,004
1959	43,585	32,644	7,228	17,536	12,024	12,904	2,120	14,100	142,141
1960	46,518	33,692	7,790	19,166	12,108	13,611	2,213	15,200	150,298
1961	46,028	33,971	8,833	18,882	12,571	14,420	3,494	14,940	153,139
1962	47,540	34,777	10,109	21,110	12,338	21,753	3,237	17,074	167,938
1963	47,953	36,971	11,635	22,290	11,507	17,930	4,558	19,467	172,311
1964	49,613	40,289	14,119	22,339	11,530	19,514	5,925	21,931	185,260
1965	49,989	44,160	15,942	23,434	14,281	19,724	7,564	24,628	199,722
1966	51,551	48,150	17,948	23,829	14,341	24,487	15,302	27,966	223,574
1967	53,438	52,593	20,205	24,749	15,565	32,100	18,521	31,160	248,331
1968	54,919	55,967	23,593	25,961	15,964	28,058	24,772	33,104	262,338
1969	56,353	56,245	27,315	25,241	15,881	28,373	13,050	30,188	252,646
1970	57,573	55,633	22 3	24,938	15,943	29,359	10,906	30,543	247,068
1971	60,949	53,478	22,275	27,272	16,228	30,939	15,780	48,839	275,760
1972	65,567	55,190	31,487	30,075	16,891	36,896	18,903	59,818	314,822
1973	76,247	60,089	28,210	39,900	18,925	53,233	26,708	71,014	374,326
1974	96,805	77,967	38,512	46,411	22,921	72,156	36,732	91,605	483,109
1975	105,862	104,760	43,997	56,644	26,900	75,269	59,390	108,080	580,902
1976	117,478	129,358	57,735	61,852	28,174	81,730	65,274	129,933	671,534
1977	132,908	144,682	63,062	70,226	31,050	84,556	73,516	152,486	752,486
1978	151,609	164,248	81,506	83,437	35,121	88,146	101,402	169,427	874,896
1979	166,105	191,918	118,584	100,562	41,255	116,498	133,540	210,926	1,079,388
1980	185,626	222,211	147,996	117,050	49,576	150,440	145,361	227,080	1,245,340
1981	251,176	249,600	210,582	124,535	63,176	153,403	162,959	275,020	1,490,451
1982	275,545	266,368	189,380	134,440	76,832	147,992	167,540	279,748	1,537,875
1983	294,956	275,760	169,374	139,279	74,992	169,352	188,069	297,601	1,609,383
1984	300,254	274,698	177,900	146,856	86,341	200,327	211,073	315,198	1,712,647
1985	305,450	263,781	169,052	152,672	99,015	193,141	219,153	351,647	1,753,911
1986	280,102	271,002	168,260	145,734	100,691	199,079	198,446	332,494	1,695,808
1987	280,693	265,332	165,374	125,449	101,335	198,366	187,191	350,403	1,672,143
1988	266,859	271,727	169,703	122,153	98,107	219,138	176,147	346,578	1,670,412

TABLE 116 Manitoba Farm Income Summary, 1954-1988

Year	Total Cash Receipts	Income In Kind	Realized Gross Income	Operating & Dep. Cost	Realized Net Income	Value of Inventory Change	Total Net Income
			- million dollars -				
1954	188	14	202	124	79	-12	66
1955	173	13	191	125	66	18	84
1956	209	13	224	131	93	32	124
1957	198	13	211	131	81	-12	68
1958	222	14	245	136	109	16	124
1959	229	13	243	142	101	-4	97
1960	223	12	245	150	94	8	103
1961	239	12	255	153	102	-57	45
1962	251	11	274	168	106	53	159
1963	270	11	283	172	110	-4	107
1964	299	10	312	185	127	29	156
1965	342	11	354	200	154	10	164
1966	377	10	388	224	165	-27	137
1967	375	10	385	248	136	16	152
1968	365	10	375	262	112	51	163
1969	351	10	362	253	109	9	118
1970	336	10	351	247	104	-15	89

	Total Cash Receipts	Operating Expenses After Rebates	Net Cash Income	Income In-Kind	Depreciation Charges	Realized Net Income	Value of Inventory Change	Total Net Income
				- million dollars -				
1971	378	217	161	9	53	116	39	155
1972	497	255	242	10	55	196	-32	164
1973	628	310	318	12	60	270	95	365
1974	827	400	428	10	78	360	-49	311
1975	947	470	477	9	105	382	9	391
1976	887	534	352	12	129	235	40	275
1977	882	596	286	10	145	151	130	281
1978	1,144	699	445	12	164	292	49	341
1979	1,340	876	464	13	192	285	-53	233
1980	1,492	1,011	481	15	222	274	-234	39
1981	1,648	1,229	419	15	250	184	225	410
1982	1,721	1,258	463	14	266	211	78	289
1983	1,793	1,320	477	14	276	215	-163	52
1984	1,980	1,420	559	14	275	299	13	313
1985	2,000	1,471	528	14	264	278	283	561
1986	2,076	1,401	675	14	271	419	-345	762
1987	2,097	1,380	717	15	265	466	-78	388
1988	2,054	1,368	686	14	272	428	-233	196

TABLE 117 Per Farm Total Net Income and Total Receipts, Manitoba, 1954 - 1988

Year	No. of Farms	Total Net Income (Production Minus Cost)	Cash (Sales)
		dollars per farm	
1954	50,500	1,312	3,717
1955	49,750	1,693	3,478
1956	49,201	2,525	4,241
1957	47,900	1,423	4,126
1958	46,700	2,660	4,757
1959	45,600	2,134	5,018
1960	44,400	2,317	5,025
1961	43,306	1,035	5,527
1962	42,600	3,726	5,891
1963	41,900	2,543	6,444
1964	41,200	3,780	7,265
1965	40,500	4,053	8,451
1966	39,747	3,459	9,490
1967	38,700	3,934	9,679
1968	37,700	4,319	9,674
1969	36,700	3,210	9,552
1970	35,800	2,480	9,378
1971	34,981	4,427	10,800
1972	34,400	4,776	14,439
1973	33,825	10,801	18,567
1974	33,250	9,368	24,877
1975	32,675	11,959	28,983
1976	32,104	8,574	27,617
1977	31,600	8,887	27,904
1978	31,000	11,011	36,898
1979	30,500	7,624	43,948
1980	30,000	1,317	49,723
1981	29,442	13,915	55,975
1982	29,300	9,856	58,736
1983	29,000	1,805	61,986
1984	29,000	10,777	68,263
1985	28,700	19,562	69,675
1986	27,336	14,034	75,939
1987	27,336	14,191	76,721
1988	27,200	7,196	75,499

TABLE 118 Price Index of Farm Products (1981 = 100)

1981	100.0	1985	94.3
1982	96.3	1986	85.0
1983	94.6	1987	80.6
1984	101.9	1988	88.4

TABLE 119A **Monthly Precipitation in Manitoba, 1963-1988 - Metric**

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
							- millimetres -						
1963	7	29	18	90	66	87	54	53	16	20	15	27	482
1964	17	5	50	54	34	119	22	71	35	6	16	31	460
1965	6	14	14	65	91	60	80	34	65	14	44	38	525
1966	9	10	41	47	38	36	86	105	18	22	26	21	459
1967	21	9	17	73	28	50	111	57	23	45	15	21	470
1968	21	5	13	32	99	83	144	143	59	40	4	9	652
1969	48	9	10	25	77	105	101	57	61	27	9	19	548
1970	23	15	27	65	87	50	70	75	112	27	27	23	601
1971	11	4	44	60	47	76	115	17	50	72	22	6	524
1972	16	10	20	13	29	50	60	103	61	25	10	25	422
Average 1963 - 1972	17.9	11.0	25.4	52.4	59.6	71.6	84.3	71.5	50.0	29.8	18.8	22.0	514.3
1973	3	6	14	21	103	88	123	66	82	37	40	19	602
1974	39	11	15	59	156	18	32	110	46	5	6	13	510
1975	46	16	19	45	48	120	58	133	42	38	13	17	595
1976	30	23	23	32	10	183	37	59	10	2	1	18	428
1977	12	21	10	5	178	88	85	90	148	30	29	19	715
1978	10	8	11	23	123	51	61	18	83	10	43	21	462
1979	9	20	45	73	93	65	23	76	25	16	15	11	471
1980	34	17	13	0	8	45	24	110	86	33	25	11	406
1981	23	3	15	13	48	90	39	104	72	60	6	7	480
1982	26	8	36	13	23	54	107	59	58	62	6	32	484
Average 1973 - 1982	23.2	13.3	20.1	28.4	79.0	80.2	58.9	82.5	65.2	29.3	18.4	16.8	515.3
1983	13	15	66	6	29	139	30	85	53	22	16	6	480
1984	12	8	12	47	30	228	38	21	62	99	27	22	606
1985	11	13	7	16	64	67	34	218	29	29	44	14	546
1986	9.6	12.9	16.9	98.3	25.2	59.2	118.0	17.0	47.5	11.6	48.4	6.4	471
1987	21.3	17.5	22.7	38.5	65.7	80.1	75.9	75.2	53.3	30.9	25.2	19.2	525.5
1988	8.8	10.7	24.2	0.8	29.9	94.9	70.8	8.5	61.3	26.8	21.3	22.5	380.5
Average 1983 - 1988	12.6	12.8	24.8	34.4	40.6	111.4	61.1	70.8	51.0	36.5	30.3	15.0	501.5

TABLE 119B **Monthly Precipitation in Manitoba, 1963-1988 - Imperial**

	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
							- inches -						
1963	0.26	1.16	0.73	3.56	2.59	3.43	2.12	2.09	0.63	0.79	0.58	1.05	18.99
1963	0.26	1.16	0.73	3.56	2.59	3.43	2.12	2.09	0.63	0.79	0.58	1.05	18.99
1964	0.66	0.20	1.98	2.14	1.34	4.69	0.88	2.80	1.36	0.23	0.62	1.20	18.10
1965	0.22	0.55	0.53	2.55	3.60	2.37	3.15	1.36	2.55	0.57	1.74	1.51	20.70
1966	0.37	0.41	1.61	1.85	1.50	1.41	3.38	4.14	0.71	0.85	1.03	0.83	18.09
1967	0.81	0.37	0.69	2.86	1.11	1.98	4.37	2.25	0.89	1.78	0.58	0.83	18.52
1968	0.84	0.19	0.52	1.27	3.90	3.26	5.66	5.63	2.31	1.59	0.15	0.35	25.67
1969	1.87	0.34	0.39	1.00	3.02	4.13	3.99	2.25	2.40	1.07	0.37	0.74	21.57
1970	0.90	0.59	1.08	2.57	3.41	1.99	2.74	2.95	4.41	1.05	1.05	0.92	23.66
1971	0.42	0.18	1.72	2.37	1.85	2.99	4.53	0.67	1.96	2.84	0.88	0.23	20.64
1972	0.63	0.41	0.79	0.51	1.14	1.98	2.37	4.06	2.41	0.97	0.41	1.00	16.68
Average													
1963 - 1972	0.70	0.43	1.00	2.06	2.35	2.82	3.32	2.81	1.97	1.17	0.74	0.87	20.25
1973	0.10	0.25	0.54	0.83	4.06	3.47	4.84	2.58	3.23	1.46	1.58	0.75	23.69
1974	1.54	0.44	0.60	2.31	6.14	0.70	1.26	4.32	1.81	0.21	0.22	0.51	20.06
1975	1.80	0.61	0.74	1.80	1.86	4.73	2.29	5.22	1.64	1.50	0.51	0.67	23.37
1976	1.17	0.91	0.91	1.24	0.41	7.19	1.45	2.32	0.39	0.10	0.03	0.72	16.84
1977	0.49	0.82	0.39	0.20	7.00	3.48	3.36	3.53	5.83	1.19	1.12	0.74	28.15
1978	0.40	0.30	0.45	0.90	4.83	2.03	2.38	0.73	3.25	0.40	1.68	0.82	18.17
1979	0.35	0.79	1.78	2.89	3.67	2.56	0.91	3.00	0.98	0.61	0.58	0.44	18.56
1980	1.34	0.69	0.52	0	0.31	1.77	0.93	4.32	3.37	1.30	0.98	0.43	15.96
1981	0.91	0.13	0.57	0.50	1.87	3.56	1.54	4.08	2.85	2.35	0.23	0.29	18.88
1982	1.01	0.31	1.41	0.52	0.92	2.13	4.21	2.32	2.29	2.44	0.22	1.25	19.03
Average													
1973 - 1982	0.91	0.52	0.79	1.12	3.11	3.16	2.32	3.25	2.57	1.15	0.72	0.66	20.29
1983	0.50	0.59	2.58	0.25	1.15	5.48	1.17	3.35	2.08	0.85	0.64	0.22	18.86
1984	0.48	0.31	0.46	1.85	1.17	8.97	1.51	0.85	2.44	3.90	1.05	0.88	23.87
1985	0.44	0.53	0.28	0.63	2.52	2.64	1.34	8.58	1.14	1.14	1.73	0.55	21.50
1986	0.38	0.51	0.67	3.87	0.99	2.33	4.65	0.67	1.87	0.46	1.91	0.25	18.56
1987	0.84	0.69	0.89	1.52	2.59	3.15	2.99	2.96	2.10	1.22	0.99	0.76	20.69
1988	0.35	0.42	0.95	0.03	1.18	3.74	2.79	0.33	2.41	1.06	0.84	0.89	14.98
Average													
1983 - 1988	0.50	0.50	0.98	1.35	1.60	4.39	2.41	2.79	2.01	1.44	1.19	0.59	19.74

TABLE 120 Selected Seasonal Data for Manitoba, 1954-1988

Year	Assiniboine River Entirely Clear of Ice at Winnipeg	Date Wheat Seeding Became General	Wheat Harvest Begun Generally	Ground Frozen So as to Stop General Field Work
1954	April 18	May 18	Aug. 16	Nov. 25
1955	April 11	May 20	Aug. 5	Nov. 2
1956	April 26	May 14	Aug. 15	Nov. 10
1957	April 19	May 4	Aug. 15	Nov. 15
1958	April 10	April 22	Aug. 20	Nov. 17
1959	April 15	April 23	Aug. 13	Nov. 3
1960	April 16	May 21	Aug. 19	Nov. 7
1961	April 21	May 15	Aug. 14	Nov. 5
1962	April 26	June 5	Sept. 3	Nov. 15
1963	April 12	June 1	Aug. 10	Nov. 20
1964	April 22	May 18	Aug. 17	Nov. 10
1965	April 16	May 26	Aug. 27	Nov. 7
1966	April 13	May 25	Aug. 23	Nov. 4
1967	April 23	May 20	Aug. 19	Nov. 21
1968	April 12	May 22	Aug. 27	Nov. 7
1969	April 19	May 21	Aug. 26	Nov. 11
1970	April 25	June 2	Aug. 25	Nov. 16
1971	April 19	May 18	Aug. 26	Oct. 30
1972	April 20	May 15	Aug. 29	Oct. 27
1973	April 5	May 10	Aug. 23	Oct. 30
1974	April 20	June 4	Sept. 10	Nov. 18
1975	April 18	May 16	Aug. 21	Nov. 20
1976	April 11	May 11	Aug. 14	Dec. 2
1977	April 12	May 10	Aug. 12	Nov. 22
1978	April 17	May 14	Aug. 31	Nov. 9
1979	April 25	June 7	Sept. 10	Nov. 22
1980	April 2	May 1	Aug. 26	Nov. 26
1981	April 2	May 2	Aug. 25	Nov. 28
1982	April 21	May 10	Aug. 30	Nov. 16
1983	April 7	May 11	Aug. 12	Nov. 17
1984	April 10	May 7	Aug. 9	Nov. 18
1985	April 4	May 5	Aug. 12	Nov. 19
1986	April 7	May 25	Aug. 26	Nov. 6
1987	April 5	May 5	Aug. 8	Nov. 9
1988	April 6	May 3	Aug. 8	Nov. 7

SOURCES AND METHODS

Preparation of this Yearbook was similar to that used since the series began in 1963. A large percentage of the material presented for the current year is based on preliminary estimates derived from sample data. Revisions of estimates made in previous Yearbooks are included in this report.

The regular statistics program of Manitoba Agriculture is the major source of material for the Yearbook. This involves close cooperation with Statistics Canada and coordination of information from many sources, including Agriculture Canada, other government and private agencies and business firms dealing in farm products and supplies. Farmers contributed through livestock and crop reporting, as did field and other staff members of Manitoba Agriculture. Basic data from Statistics Canada were derived from mail surveys in cooperation with Manitoba Agriculture. Survey samples vary from one percent to ten percent of farmers, depending on the type of information required.

Regional data for crop districts in the Yearbook can be supplemented by more detailed data for municipalities from the 1981 Census of Agriculture. The Census also provides some information on features of agriculture not covered in this Yearbook. Census division and crop district boundaries were changed in 1976 and Statistics Canada's estimates of crop production using the new boundaries were first made in 1977. Thus, small area estimates since 1977 are not comparable with earlier data.

Some figures may not add up due to rounding.

Crops

Total Value of Production. This includes all crops grown on farms in the current year for sale, feed, seed and home consumption at prevailing market prices during the crop year. Disposal of these crops for various uses in the current or subsequent years may have very little effect on the total value. With few exceptions, production value for each crop represents value to the producer.

Prices. Prices used to calculate production value for most crops are those farmers receive at the shipping point. This is regarded as farm value because freight, handling and other marketing charges are deducted. Transport costs incurred by farmers in delivering grain to elevators are included with farm expenses. Average prices for all crops are estimated final prices, based on Manitoba Agriculture market outlook work. As a result, production value is more comparable with previous years, since initial payments would grossly underestimate crop value. Prices are subject to revision after all relevant sales and payments have been made. Small revisions will be necessary in current prices of crops when more information on sales and payments is available.

Areas. Major crops areas are estimated by Statistics Canada in cooperation with Manitoba Agriculture. Minor crops, such as sugar beets, sunflowers and mustard seed, are estimated through contacts with dealers, processors and Department field staff. Estimates, in most cases, are for seeded area while yields are reported on the land devoted to a crop at seeding time. Oats and barley are on a harvested area basis. The November estimate (Statistics Canada 22-002) contains latest area and yield estimates, with a few exceptions as noted.

Yields. Major crop yields are derived from Statistics Canada surveys, integrated with the Manitoba crop reporting program. Minor crops are estimated mainly through the latter and revised as market data require. In some cases, yield multiplied by area may not exactly equal production, due to the rounding of one or more of the three items.

Wheat. Quality data on protein content are obtained from the Canadian Grain Commission. Distribution by grade is based on Wheat Board Special Questionnaire No. 1, November when elevator agents estimate the amounts of deliverable grain in each grade. Initial payments to producers are reported by the Wheat Board. Thunder Bay selling prices are recorded by the Canadian Grain Commission. Prices listed are rounded to the nearest cent while marketing data are provided by the Canadian Grain Commission. Such data are also published by Statistics Canada in Coarse Grains Quarterly and Wheat Review.

Oats and Barley. Distribution by grades and initial payments have the same sources as wheat. Since private firms, in addition to the Wheat Board, sell these grains, Lakehead selling prices are Winnipeg Commodity Exchange cash quotations. Final prices are more closely represented than the Wheat Board selling price alone. Marketing data are from the same sources as wheat.

Flaxseed, Canola (rapeseed) and Other Crops. These were treated, for the most part, similarly to the above. Regional data were not always available but verbal description was used when possible. Sugar beets are on a harvested area basis. Values are at the factory level, obtained from the Manitoba Sugar Company, except for the current crop which is estimated. Deduction of freight would not allow the remaining figure to properly indicate the actual sugar beet price, as it would vary

considerably depending on the farm location. Forage seed data are from Plant Products Division, Agriculture Canada and the forage specialist, Manitoba Agriculture.

Horticultural Crops. Included are vegetables, potatoes, fruit and ornamentals. The commercial vegetable area and prices are estimated jointly by Statistics Canada and Manitoba Agriculture. An estimate of minor crops, such as peppers, eggplants, vine and specialty crops, is included in the value of vegetable production. Value of noncommercial vegetables represents the value of home-grown vegetables in the province. The processing potato area was obtained from the processors.

Different levels of prices were used with respect to processing, fresh market and farm-consumed potatoes to arrive at the total value. Other horticultural values, including fruit and ornamentals, are derived also in consultation with the provincial horticulturists.

In addition to the major crops listed, production of field beans, fababeans, canary grass seed and lentils also took place.

Sugar beet production value estimates for the current year are based on the per unit value of product sold to date and does not include a final payment to be made when the entire crop has been sold.

Livestock

Production value of cattle and hogs includes inventory change. A gain in numbers on farms is a part of production but a decline during the year is a loss in production. Inventory figures are from Statistics Canada surveys. Animals in the category "local slaughterings" are those farmers kill and eat, kill and sell, or sell locally for slaughter and consumption. These animals, as well as commerical marketings, are a part of production. Inshipments are those animals (1) returned to farms for further feeding after being marketed from other Manitoba farms or (2) brought in from other provinces, usually Saskatchewan. To avoid double counting in the value of production, inshipments are deducted. Commercial marketings include direct exports to other provinces and the United States, of animals which do not go through the stockyards but are of Manitoba origin.

Total values of all classes of livestock marketed were estimated from Agriculture Canada's publication "Canada Livestock and Meat Trade Report". From these figures the dollar value per animal, less marketing costs, is calculated and applied to animals produced.

Market and Quality. Data for cattle and hogs are obtained principally from Agriculture Canada's publication "Canada Livestock and Meat Trade Report". Prices are from the same Department and pertain to Stockyard sales, upon which the value of all marketings is based. Calves are defined, generally, as under one year of age or 249 kilograms (550 pounds).

Sheep. Sources are the same as those for cattle and hogs. Production calculation is based on marketings only, due to the small number involved. Wool sources are from Statistics Canada's publications 23-203, 23-204 and 23-205.

Dairy. Production figures are obtained from Statistics Canada, primarily publication 23-001. Production values and itemization were supplied by the Agricultural Division of Statistics Canada. The supplementary payments were not allocated to the different classes of milk but were added in the total value of dairy production.

Poultry. Inventory figures are from the same source as other livestock. Monthly prices are the average of recorded weekly prices from Agriculture Canada. Production values for eggs were obtained from Statistics Canada, publication 23-003. The value of hatching eggs was estimated by Manitoba Agriculture. Statistics on Manitoba egg quota allocation and inventory are obtained from the Tenth Annual Producers Conference Report, Canadian Egg Marketing Agency.

Broiler production was calculated on the basis of registered marketings. Roasting chickens were calculated according to placements as indicated by Agriculture Canada's Hatchery Outlook publication and allowing for a ten percent mortality figure. Broiler turkeys are listed equal to registered marketings of turkeys, 4.5359 kilograms and under (ten pounds and under), and roasting birds are estimated according to marketings and other information. Ducks are listed according to marketings plus an on-farm allowance. Geese are shown according to marketings, exports and Agriculture Canada survey data. Poultry meat prices are calculated per bird according to average weights and information on recorded prices by Agriculture Canada.

Other Products

Honey. Production estimates are made cooperatively by Statistics Canada and Manitoba Agriculture.

Fur. Data are obtained from Statistics Canada's publication 23-207. They cover only production from fur farms.

Forest. Products are those listed as sales in Statistics Canada farm income estimates.

Resources

Most resource information for Census years are from Statistics Canada, Census Division. Annual summerfallow estimates since 1976 are made cooperatively by Statistics Canada and Manitoba Agriculture.

Farm Numbers. These are taken from the Census according to the current definition of a farm. In 1966 and 1971, a farm was defined as an agricultural holding of 0.40469 hectares (one acre) or more with sales during the previous twelve months of $50.00 or more. Previous definitions were less restrictive. The 1981 Census definition is an agricultural holding with sales of agricultural products during the past twelve months of $250.00 or more. Farm estimates for intervening years are unofficial estimates by Manitoba Agriculture.

Labour Force. Statistics are from the Labour Census, Statistics Canada 94-921 and the 1981 Census of Agriculture 96-908. Wage rates in August come from Statistics Canada.

Cash and Overhead Expenses. These data are taken from Farm Operating Expenses and Depreciation Charges published in Statistics Canada's Farm Net Income publication 21-202.

Machinery. Sales data are from the Canadian Farm and Industrial Equipment Institute.

Fertilizer. Sales data are from the Western Canada Fertilizer Association.

Herbicide. Data are obtained from annual Manitoba Agriculture surveys in contact with wholesalers and manufacturers.

Price Index of Purchases by Farmers. These data come from Statistics Canada's publication 62-002, rounded to the nearest whole number. The indices were revised to 1971 and the base year changed from 1961 to 1971.

Land Values

Data were obtained from the records of land sales in Manitoba collected by the Manitoba Agricultural Lands Protection Board.

Income

Cash and net farm income data on a provincial basis are obtained from Statistics Canada publications. Statistics Canada's publication 21-202 (latest available issue) is the source for total cash income. The main source for farm cash details is Statistics Canada's publication 21-001 (latest available issue).

Calculations on a per farm basis are made by Manitoba Agriculture and may not truly reflect exact averages. Census farms, as a basis, are not the only contributors to total sales. Small units, not called farms, do sell produce but are almost negligible. Per farm figures are rounded to the nearest $100.00. The price index of farm products is obtained from Statistics Canada's publication 62-003, rounded to the nearest whole number and approximated for the current year. Current-year indices are subject to under-representation since they are based on initial prices for grains.

Agriculture in Perspective

Description in relation to Canada makes use of data with the same sources as similar material throughout the Yearbook for Manitoba.

Weather Data

These are obtained on a regular basis for Manitoba Agriculture Reporting Program from the Environment Canada, Atmospheric Environment Service, Room 1000, 266 Graham Avenue, Winnipeg, Manitoba.

Metric Conversion Factors

1 acre = 0.40469 hectares
1 pound = 0.45359 kilograms
1 ounce = 28.35 grams
1 Imperial ton = 0.907185 tonnes
1 Imperial bushel = 0.036368 cubic metres
1 Imperial gallon = 4.546 litres
1 Imperial fluid ounce = 28.413 millilitres
1 foot = 0.3048 metres
1 inch = 2.54 centimetres
°C (Celsius) = 5/9 (°Fahrenheit - 32)